

Andrzej Cegielski
 Institute of Mathematics
 University of Zielona Góra
 ul. Szafrana 4a, 65-516 Zielona Góra, Poland
 e-mail: a.cegielski@im.uz.zgora.pl

Bibliography on the Kaczmarz method

The original paper of Kaczmarz

- [Kac37] S. Kaczmarz, Angenäherte Auflösung von Systemen linearer Gleichungen (Przybliżone rozwiązywanie układów równań liniowych), *Bull. Intern. Acad. Polonaise Sci. Lett., Cl. Sci. Math. Nat. A*, **35** (1937) 355-357. English translation: S. Kaczmarz, Approximate solution of systems of linear equations, *International Journal of Control*, **57** (1993) 1269-1271.

Publications which cite [Kac37]

- [1] J. Abaffy and E. Spedicato, A generalization of Huang's method for solving systems of linear algebraic equations, *Bolletino dell'Unione Matematica Italiana*, 63-B (1984) 517-529.
- [2] J. Abaffy and E. Spedicato, *ABS Projection Algorithms: Mathematical Techniques for Linear and Nonlinear Equations*, Ellis Horwood Limited, Chichester, Halsted Press, New York, Chichester, 1989.
- [3] M.I.K. Abir, *Iterative CT Reconstruction from Few Projections for the Nondestructive Post Irradiation Examination of Nuclear Fuel Assemblies*, Ph.D. Thesis, Missouri University of Science and Technology, Rolla, Missouri, USA, 2015.
- [4] A. Aboud, *A Dualized Kaczmarz Algorithm in Hilbert and Banach Space*, Ph.D. Thesis, Iowa State University, Ames, Iowa, USA, 2019.
- [5] A. Aboud and E.S. Weber, The Kaczmarz algorithm in Banach spaces, *Complex Analysis and Operator Theory*, (2022) 16:63.
- [6] M.F. Adams, A low memory, highly concurrent multigrid algorithm, arXiv:1207.6720v3 (2012).
- [7] M. Aftanas, *Through Wall Imaging with UWB Radar System*, Ph.D. Thesis, Technical University of Košice, Košice, Slovakia, 2009.
- [8] A. Agaskar, *Problems in Signal Processing and Inference on Graphs*, Ph.D. Thesis, Harvard University, Cambridge, MA, USA, 2015.
- [9] A. Agaskar, C. Wang and Y.M. Lu, Randomized Kaczmarz algorithms: Exact MSE analysis and optimal sampling probabilities, 2014 IEEE Global Conference on Signal and Information Processing (GlobalSIP), Atlanta, GA, 3-5 Dec. 2014, pp. 389-393.
- [10] H.K. Aggarwal and A. Majumdar, Extension of sparse randomized Kaczmarz algorithm for multiple measurement vectors, 22nd International Conference on Pattern Recognition, Stockholm, 2014, pp. 1014-1019, doi: 10.1109/ICPR.2014.184.
- [11] R. Aharoni, P. Duchet and B. Wajnryb, Successive projections on hyperplanes, *Journal of Mathematical Analysis and Applications*, 103 (1984) 134-138.
- [12] N.H.F. Al-anbari and M.H.A. Al-Hayani, Evaluation performance of iterative algorithms for 3D image reconstruction in cone beam geometry, *Al-Nahrain Journal for Engineering Sciences*, 20 (2017) 149-157.
- [13] Y. Alber and D. Butnariu, Convergence of Bregman projection methods for solving consistent convex feasibility problems in reflexive Banach spaces, *Journal of Optimization Theory and Applications*, 92 (1997) 33-61.
- [14] S.J. Alderman, R.W. Luikart, N.F. Marshall, Randomized Kaczmarz with geometrically smoothed momentum, arXiv:2401.09415v1 (2024).
- [15] N. Alemazkoor, A. Louhghalam and M. Tootkaboni, A multi-fidelity polynomial chaos-greedy Kaczmarz approach for resource-efficient uncertainty quantification on limited budget, *Comput. Methods Appl. Mech. Engrg.*, 389 (2022), 114290.
- [16] N. Alemazkoor, S. Wang and H. Meidani, A recursive data-driven model for traffic flow predictions for locations with faulty sensors, 21st International Conference on Intelligent Transportation Systems (ITSC), Maui, Hawaii, USA, November 4-7, 2018.

- [17] A. Aleyner, *Iterative Methods for Solving Convex Feasibility Problems*, Ph.D. Thesis, The Technion – Israel Institute of Technology, Haifa, Israel, 2008.
- [18] A. Aleyner and S. Reich, Block-iterative algorithms for solving convex feasibility problems in Hilbert and in Banach spaces, *Journal of Mathematical Analysis and Applications*, 343 (2008) 427-435.
- [19] J.M. Algarín, T. Guallart-Naval, J. Borreguero, F. Galve and J. Alonso, MaRGE: A graphical environment for MaRCoS, *Journal of Magnetic Resonance*, 361 (2024), 107662.
- [20] S. Al-Homidan, Semidefinite and second-order cone optimization approach for the Toeplitz matrix approximation problem, *J. Numer. Math.*, 14 (2006) 1–15.
- [21] Z. Allen-Zhu, Z. Qu, P. Richtárik and Y. Yuan, Even faster accelerated coordinate descent using non-uniform sampling, Proceedings of the 33rd International Conference on Machine Learning, New York, NY, USA, 2016. JMLR: W&CP volume 48.
- [22] M.A.M. Althomali, *Towards Ultrasound Computed Tomography Assessment of Bone*, Ph.D. Thesis, Queensland University of Technology, Australia, 2018.
- [23] M.A.M. Althomali, M.-L. Wille, M.P. Shortell and C.M. Langton, Estimation of mechanical stiffness by finite element analysis of ultrasound computed tomography (UCT-FEA); a comparison with X-ray μ CT based FEA in cancellous bone replica models, *Applied Acoustics* 133 (2018) 8–15.
- [24] O.T. Altinoz, A.E. Yilmaz and G. Ciuprina, Use of Kaczmaz’s method in intelligent-particle swarm optimization, 8th International Conference on Electrical and Electronics Engineering, Bursa, 28-30 Nov. 2013, pp. 526-530.
- [25] M. Altman, On the approximate solution of linear algebraic equations, *Bulletin de L’Académie Polonaise des Sciences Cl. III*, 5 (1957) 365-370.
- [26] M. Aly, G. Zang, W. Heidrich and P. Wonka, TRex: A tomography reconstruction proximal framework for robust sparse view X-ray applications, arXiv:1606.03601v1 (2016).
- [27] A. Aminzadeh, L. Roberts, B. Young, C.-I Chiang, I.D. Svalbe, D.M. Paganin, and A.M. Kingston, Mask design, fabrication, and experimental ghost imaging applications for patterned X-ray, *Optics Express*, 31 (2023), 24328–24346.
- [28] M. Amirian, *Deep Learning for Robust and Explainable Models in Computer Vision*, Ph.D. Thesis, Universität Ulm, Ulm, Germany (2023).
- [29] M. Amirian, J.A. Montoya-Zegarra, I. Herzig, P. Eggenberger Hotz, L. Lichtensteiger, M. Morf, A. Züst, P. Paysan, I. Peterlik, S. Scheib, R. M. Fuchslin, T. Stadelmann and F.-P. Schilling, Mitigation of motion-induced artifacts in cone beam computed tomography using deep convolutional neural networks, *Medical Physics*, (2023) 1–15.
- [30] P.E. An and C.J. Harris, An intelligent driver warning system for vehicle collision avoidance, *IEEE Transactions on Systems Man and Cybernetics — Part A: Systems and Humans*, 26 (1996) 254-261.
- [31] P.E. An, M. Brown and C.J. Harris, On the convergence rate performance of the normalized least-mean-square adaptation, *IEEE Transactions on Neural Networks*, 8 (1997) 1211-1214.
- [32] A.H. Andersen, Tomography transform and inverse in geometrical optics, *J. Opt. Soc. Am. A*, 4 (1987) 1385-1395.
- [33] A.H. Andersen, A ray tracing approach to restoration and resolution enhancement in experimental ultrasound tomography, *Ultrasonic Imaging*, 12 (1990) 268-291.
- [34] M.S. Andersen and P.C. Hansen, Generalized row-action methods for tomographic imaging, *Numer. Algor.*, 67 (2014) 121-144.
- [35] A.H. Andersen and A.C. Kak, Simultaneous algebraic reconstruction technique (SART): a superior implementation of the ART algorithm, *Ultrasonic Imaging*, 6 (1984) 81-94.
- [36] M. Andrecut, Randomized kernel methods for least-squares support vector machines, *International Journal of Modern Physics C*, 28 (2017) 1750015.
- [37] T. Angsuwatanakul, T. Chanwimalueang, C. Pintavirooj, M. Sangworasil and P.Lertprasert, Improved-resolution X-ray array detector applied for SART fanbeam, International Symposium on Communications and Information Technologies, Bangkok, Oct. 18 – Sept. 20, 2006 , 1145-1148.
- [38] C.F. Ansley and R. Kohn, Convergence of the backfitting algorithm for additive models, *J. Austral. Math. Soc. (Series A)*, 57 (1994) 316-329.
- [39] R. Ansorge, Connections between the Cimmino-method and the Kaczmaz-method for the solution of singular and regular systems of equations, *Computing* 33 (1984) 367-375.

- [40] A.E. Anuta jr, The mode shape reversal, *Computers & Structures*, 33 (1989) 103-116.
- [41] G. Appleby and D.C. Smolarski, A linear acceleration row action method for projecting onto subspaces, *Electronic Transactions on Numerical Analysis*, 20 (2005) 253-275.
- [42] F.O. Araujo, *Método de Projeções Ortogonais*, Ph.D. Thesis, Universidade Federal do Rio Grande do Norte, Natal, Brazil, 2012.
- [43] A. Aravkin, M.P. Friedlander, F.J. Herrmann and T. van Leeuwen, Robust inversion, dimensionality reduction, and randomized sampling, *Mathematical Programming Series B*, 134 (2012), 101-125.
- [44] F. Arcadu, M. Stampanoni and F. Marone, On the crucial impact of the coupling projector-backprojector in iterative tomographic reconstruction, arXiv:1612.05515v1 (2016).
- [45] R. Arefidamghani, R. Behling, Y. Bello-Cruz, A.N. Iusem and L.-R. Santos, The circumcentered-reflection method achieves better rates than alternating projections, *Computational Optimization and Applications*, (2021) doi.org/10.1007/s10589-021-00275-6.
- [46] R. Arefidamghani, R. Behling, A.N. Iusem and I.R.Santos, A circumcentered-reflection method for finding common fixed points of firmly nonexpansive operators, arXiv:2203.02410v1 (2022).
- [47] V.L. Arlazarov, D.P. Nikolaev, V.V. Arlazarov and M.V. Chukalina, X-ray tomography: the way from layer-by-layer radiography to computed tomography, *Computer Optics*, 45 (2021), 897-906. DOI: 10.18287/2412-6179-CO-898.
- [48] F.M. Arrabal-Campos, L.M. Aguilera-Sáez and I. Fernández, Algebraic reconstruction technique for diffusion NMR experiments. application to the molecular weight prediction of polymers, *J. Phys. Chem. A*, 123 (2019) 943-950.
- [49] S. R. Arridge and J.C. Schotland, Optical tomography: forward and inverse problems, *Inverse Problems*, 25 (2009) 123010.
- [50] F.J.A. Artacho, R. Campoy and M.K. Tam, The Douglas-Rachford algorithm for convex and nonconvex feasibility problems, arXiv:1904.09148v1, 2019.
- [51] K. Arunachalam, L. Udpa and S.S. Udpa, MEMS based computed tomographic scanner for border security, IEEE International Conference on Electro Information Technology, Lincoln, NE, 22-25 May 2005 (5 pp).
- [52] K. Arunachalam, S.S. Udpa and L. Udpa, An X-ray security screening technique with limited field-of-view, *International Journal of Applied Electromagnetics and Mechanics*, 24 (2006) 79-89.
- [53] K. Arunachalam, S.S. Udpa and L. Udpa, Tomographic imaging for border security applications, *International Journal of Applied Electromagnetics and Mechanics*, 25 (2007) 389-394.
- [54] G. Asova, *Tomography of the Electron Beam Transverse Phase Space at PITZ*, Ph.D. Thesis, Sofia, Bulgaria, 2012.
- [55] A. N. Astafyev, S.I. Gerashchenko, M.V. Markuleva and M.S. Gerashchenko, Neural Network System for Medical Data Approximation, 2020 IEEE Conference of Russian Young Researchers in Electrical and Electronic Engineering, DOI: 10.1109/EIConRus49466.2020.9039353
- [56] K.J. Åström, Theory and applications of adaptive control – a survey, *Automatica*, 19 (1983) 471-486.
- [57] K.J. Åström and P. Eykhoff, System identification – a survey, *Automatica*, 7 (1971) 123-162.
- [58] E.H. Atkinson, *A Language and Logic for Programming and Reasoning with Partial Observability*, Ph.D. Thesis, Massachusetts Institute of Technology, USA (2024).
- [59] E. Atkinson and M. Carbin, Programming and reasoning with partial observability, *Proc. ACM Program. Lang.*, 4 (2020), No. OOPSLA, Article 200.
- [60] A. Autret, *Amélioration qualitative et quantitative de reconstruction TEP sur plate-forme graphique*, Ph.D. Thesis, Université Européenne de Bretagne, France, 2015.
- [61] E. Aved'yan, *Learning systems*, Springer, London, 1995.
- [62] E. Aved'yan, Deterministic algorithms, in: E. Aved'yan *Learning systems*, Springer, London, 1995, pp. 16-39.
- [63] E. Aved'yan, The cerebellar model articulation controller (CMAC), in: E. Aved'yan *Learning systems*, Springer, London, 1995, pp. 110-119.
- [64] E. Avedyan, Basis functions of the multidimensional CMAC neural network, 2014 International Conference on Engineering and Telecommunication, Moscow, (2014). DOI: 10.1109/EnT.2014.23
- [65] E. Avedyan, A. Galushkin and D. Pantiukhin, Neural network technologies for information systems security, Seventh IEEE Symposium on Computational Intelligence for Security and Defense Applications, Hanoi, 14-17 Dec. 2014, pp.1-5.

- [66] E.D. Aved'yan and Y.Z. Tsympkin, An amended Kaczmarz algorithm, *Avtomat. i Telemekh.*, 1 (1979) 72–78.
- [67] H. Ayasso, *Une approche bay esienne de l'inversion. Application a l'imagerie de di raction dans les domaines micro-onde et optique*, Ph.D. Thesis, Université Paris Sud - Paris XI, France, 2010.
- [68] H. Azhari, J.A. Kennedy, N. Weiss and L. Volokh, Basic principles of tomographic reconstruction. In: *From Signals to Image*, Springer, Cham, 2020.
- [69] N. Azizan, *Large-Scale Intelligent Systems: From Network Dynamics to Optimization Algorithms*, Ph.D. Thesis, California Institute of Technology, Pasadena, California, USA (2021).
- [70] N. Azizan-Ruhi, F. Lahouti, S. Avestimehr and B. Hassibi, Distributed solution of large-scale linear systems via accelerated projection-based consensus, IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Calgary, AB, 2018, pp. 6358-6362, doi: 10.1109/ICASSP.2018.8462630.
- [71] V.N. Babenko, The convergency of the Kaczmarz projection algorithm. (Russian) *Zh. Vychisl. Mat. i Mat. Fiz.* 24 (1984) 1571-1573. English Translation in: *USSR Computational Mathematics and Mathematical Physics*, 24 (1984) 179-181.
- [72] Z. Bahri and B.V.K. V. Kumar, Computational considerations in the determination of synthetic discriminant functions, Proc. SPIE 0726, Intelligent Robots and Computer Vision V, 46 (1987). doi:10.1117/12.937711
- [73] D. Bai and R. Elber, Calculation of point-to-point short-time and rare trajectories with boundary value formulation, *J. Chem. Theory Comput.*, 2 (2006) 484-494.
- [74] Z.-Z. Bai and X.-G. Liu, On the Meany inequality with applications to convergence analysis of several row-action iteration methods, *Numer. Math.*, 124 (2013) 215-236.
- [75] Z.-Z. Bai and L. Wang, On convergence rates of Kaczmarz-type methods with different selection rules of working rows, *Applied Numerical Mathematics*, 186 (2023) 289-319.
- [76] Z.-Z. Bai and L. Wang, On multi-step randomized extended Kaczmarz method for solving large sparse inconsistent linear systems, *Applied Numerical Mathematics*, 192 (2023), 197-213.
- [77] Z.-Z. Bai and W.-T. Wu, On greedy randomized Kaczmarz method for solving large sparse linear systems, *SIAM J. Sci. Comput.*, 40 (2018), A592–A606.
- [78] Z.-Z. Bai and W.-T. Wu, On relaxed greedy randomized Kaczmarz methods for solving large sparse linear systems, *Applied Mathematics Letters*, 83 (2018) 21–26.
- [79] Z.-Z. Bai, W.-T. Wu, On convergence rate of the randomized Kaczmarz method, *Linear Algebra and its Applications*, 553, (2018), 252-269.
- [80] Z.-Z. Bai and W.-T. Wu, On partially randomized extended Kaczmarz method for solving large sparse overdetermined inconsistent linear systems, *Linear Algebra and its Applications*, 578 (2019) 225–250.
- [81] Z.-Z. Bai and W.-T. Wu, Randomized Kaczmarz iteration methods: Algorithmic extensions and convergence theory, *Japan Journal of Industrial and Applied Mathematics*, 40 (2023), 1421–1443.
- [82] M. Bajpai, C. Schorr, M. Maisl, P. Gupta and P. Munshi, High resolution 3D image reconstruction using the algebraic method for cone-beam geometry over circular and helical trajectories, *NDT&E International*, 60 (2013) 62-69.
- [83] A.L. Balandin, The spherical tensor approach to 3D tensor field tomography, *Inverse Problems in Science and Engineering*, 25 (2017) 771–783.
- [84] C.A. Balanis, R.D. Radcliff and H.W. Hill, Radio-frequency imaging in geophysical applications, *Journal of Microwave Power*, 18 (1983) 83-93.
- [85] D. Balsara, Fast and accurate discrete ordinates methods for multidimensional radiative transfer. Part I, basic methods, *Journal of Quantitative Spectroscopy & Radiative Transfer* 69 (2001) 671-707.
- [86] W. Bao, Z. Lv, F. Zhang and W. Li, A class of residual-based extended Kaczmarz methods for solving inconsistent linear systems, *Journal of Computational and Applied Mathematics*, 416 (2022) 114529.
- [87] I. Barbu, *Tridimensional Estimation of Turbulent Fluid Velocity* (in French), Ph.D. Thesis, Université de Rennes 1, France, 2014.
- [88] E. Barletta and S. Dragomir, Uniform approximation of holomorphic forms, *Complex Variables, Theory and Application: An International Journal*, 35 (1998) 359-366.
- [89] S. Barnes, A. Georgadze, A. Giammanco, M. Kiisk, V.A. Kudryavtsev, M. Lagrange and O.L. Pinto, Cosmic-ray tomography for border security, *Instruments*, 7 (2023) 13, <https://doi.org/10.3390/instruments7010013>.

- [90] A. Basu, J. De Loera and M. Junod, On Chubanov's method for linear programming, *INFORMS Journal on Computing*, 26 (2013) 336-350.
- [91] J. Baumeister, *Stable Solution of Inverse Problems*, Vieweg, Braunschweig (1987).
- [92] H.H. Bauschke, A norm convergence result on random products of relaxed projections in Hilbert space, *Trans. Amer. Math. Soc.* 347 (1995), 1365-1373.
- [93] H.H. Bauschke, *Projection Algorithms and Monotone Operators*, Ph.D. Thesis, Department of Mathematics, Simon Fraser University, Burnaby, British Columbia, Canada, 1996.
- [94] H.H. Bauschke and J.M. Borwein, On projection algorithms for solving convex feasibility problems, *SIAM Review*, 38 (1996) 367-426.
- [95] H.H. Bauschke, J.M. Borwein and A.S. Lewis, The method of cyclic projections for closed convex sets in Hilbert space, *Contemporary Mathematics*, 204 (1997) 1-38.
- [96] H.H. Bauschke, P.L. Combettes, and S.G. Kruk, Extrapolation algorithm for affine-convex feasibility problems, *Numerical Algorithms* 41 (2006) 239-274.
- [97] A. Băutu, E. Băutu and C. Popa, A weighted Kaczmarz algorithm in image reconstruction, Proceedings of the Fifth Workshop on Mathematical Modelling of Environmental and Life Sciences Problems Constanța, Romania, September, 2006, pp. 43-50.
- [98] A. Băutu, E. Băutu, C. Popa and H. Luchian, Improving image reconstruction with evolutionary algorithms, 7th Balkan Conference on Operational Research, Constanta, May 2005, Romania (10 pp).
- [99] R.K. Beatson, W.A. Light and S. Billings, Fast solution of the radial basis function interpolation equations: Domain decomposition methods, *SIAM Journal on Scientific Computing*, 22 (2001) 1717-1740.
- [100] A.C. Becker, E.V. Kuhn, M.V. Matsuo and J. Benesty, On the NP-VSS-NLMS Algorithm: Model, design guidelines, and numerical results, *Circuits, Systems, and Signal Processing* (2023). <https://doi.org/10.1007/s00034-023-02565-2>.
- [101] R. Behling, Y. Bello-Cruz and L.R. Santos, Infeasibility and error bound imply finite convergence of alternating projections, arXiv:2008.03354v1 (2020).
- [102] R. Behling, Y. Bello-Cruz, A. Iusem, D. Liu and L.R. Santos, A finitely convergent circumcenter method for the convex feasibility problem, arXiv:2308.09849v1 (2023).
- [103] M. Beister, D. Kolditz and W.A. Kalender, Iterative reconstruction methods in X-ray CT, *Physica Medica*, 28 (2012) 94-108.
- [104] M. Belkin, Fit without fear: remarkable mathematical phenomena of deep learning through the prism of interpolation, arXiv:2105.14368v1 (2021).
- [105] R. Ben-Av, A. Brandt, M. Harmatz, E. Katznelson, P.G. Lauwers, S. Solomon and K. Wolowesky, Fermion simulations using parallel transported multigrid, *Physics Letters B*, 253 (1991) 185-192.
- [106] R. Ben-Av, M. Harmatz, S. Solomon and P.G. Lauwers, Parallel-transported multigrid for inverting the Dirac-operator – variants of the method and their efficiency, *Nuclear Physics B*, 405 (2-3) (1993) 623-666.
- [107] P. Bender, J. Leliaert, M. Bersweiler, D. Honecker and A. Michels, Imaging nanostructured spin textures, arXiv:2003.14003v1, 2020.
- [108] P. Bender, J. Leliaert, M. Bersweiler, D. Honecker and A. Michels, Unraveling nanostructured spin textures in bulk magnets, *Small Sci.* (2020), 2000003, 6 pages.
- [109] J. Benech, *Spécificité de la mise en oeuvre de la tomographie dans le domaine de l'arc électrique - Validité en imagerie médicale*, Ph.D. Thesis, University Toulouse, France, 2008.
- [110] Y. Benkarroum, *Computerized Classification of Surface Spikes in Three-Dimensional Electron Microscopic Reconstructions of Viruses*, Ph.D. Thesis, City University of New York, USA, 2016.
- [111] M. Benning and E.S. Riis, Bregman methods for large-scale optimisation with applications in imaging. In: Chen K., Schönlieb CB., Tai XC., Younes L. (eds) *Handbook of Mathematical Models and Algorithms in Computer Vision and Imaging*, Springer, Cham, 2021. https://doi.org/10.1007/978-3-030-03009-4_62-1
- [112] M. Benzi, Solution of equality-constrained quadratic programming problems by a projection iterative method, *Rend. Mat. Appl.*, 7 (1993) 275-296.
- [113] M. Benzi, Gianfranco Cimmino's contributions to numerical mathematics, *Atti del Seminario di Analisi Matematica dell'Università di Bologna*, Technoprint, 2005, pp. 87-109.

- [114] A. Ben-Israel, Projectors on intersections of subspaces, in: S. Reich, A.J. Zaslavski (Eds.), *Infinite Products of Operators and Their Applications*, American Mathematical Society, Providence, *Contemporary Mathematics*, 636 (2015) 41-50.
- [115] A. Ben-Israel and T.N.E. Greville, *Generalized Inverses: Theory and Applications*, Springer, New York, 2003.
- [116] A. Bërdëllima, On a notion of averaged operators in CAT(0) spaces, arXiv:2010.05726v2 (2020).
- [117] E.H. Bergou, S. Boucherouite, A. Dutta, X. Li and A. Ma, A note on randomized Kaczmarz algorithm for solving doubly-noisy linear systems, arXiv:2308.16904v1 (2023).
- [118] L. Berg, Iterative solution of simultaneous equations, *Journal of Computational and Applied Mathematics*, 24 (1988) 257-264.
- [119] C. Berner, J.E. Herr, P.E.T. Jorgensen and E.S. Weber, Fourier series for singular measures in higher dimensions, arXiv:2402.15950v1 (2024).
- [120] O.O. Bezsonov, A research of single-step learning algorithms of artificial neural networks (in Russian), *Sistemy obrobki informacii*, 7 (2016) 127-129.
- [121] G.F. Bilesky, *Tomografia de velocidades e localização de eventos de emissão acústica em ensaios de compressão diametral*, Ph. D. Thesis, Universidade de São Paulo, Brasil, (2022)
- [122] R.N.K. Bismark, *On the Application of the Polychromatic Statistical Reconstruction Technique to C-arm CT Data*, Ph.D. Thesis, Universität Magdeburg, Germany, 2021.
- [123] C.C. Bissell, Bibliography of secondary sources for the history of control engineering, *Int. J. Control*, 63 (1996) 995-1002.
- [124] Å. Björck, *Numerical Methods for Least Squares Problems*, Society for Industrial and Applied Mathematics, Philadelphia, PA, 1996.
- [125] Å. Björck, *Numerical Methods in Matrix Computations*, Texts in Applied Mathematics 59, Springer, Cham (2015).
- [126] Å. Björck, T. Elfving, Accelerated projection methods for computing pseudoinverse solutions of systems of linear equations, *BIT Numerical Mathematics*, 19 (1979) 145-163.
- [127] I.R. Bleyer and A. Leitão, Novel regularization methods for ill-posed problems in Hilbert and Banach spaces, 30^o Colóquio Brasileiro de Matemática, IMPA, Rio de Janeiro, Brazil, 2015.
- [128] E. Bodewig, Bericht über die verschiedenen Methoden zur Lösung eines Systems linearer Gleichungen mit reellen Koeffizienten, *Nederl. Akad. Wetensch. Proc.* 51 (1948) 53-64, 211-219.
- [129] E. Bodewig, *Matrix Calculus*, North-Holland, Amsterdam, 1959.
- [130] Y. Bodyanskiy and O. Chala, Matrix Neo-Fuzzy-System and its Online Learning in Image Recognition Task, *Information Technology and Management Science*, 24 (2021), 39-44.
- [131] Y. Bodyanskiy, D. Kinoshenko, S. Mashtalir and O. Mikhnova, On-line video segmentation using methods of fault detection in multidimensional time sequences, *International Journal of Electronic Commerce Studies*, 3 (2012) 1-20.
- [132] Y. Bodyanskiy, I. Pliss and O. Vynokurova, A learning algorithm for forecasting adaptive wavelet-neuro-fuzzy network, Fifth International Conference "Information Research and Applications" i.TECH 2007, Varna, Bulgaria, pp. 211-218.
- [133] Y. Bodyanskiy, I. Pliss and O. Vynokurova, Adaptive wavelet-neuro-fuzzy network in the forecasting and emulation tasks, *International Journal "Information Theories & Applications"*, 15 (2008) 47-55.
- [134] Y. Bodyanskiy, S. Popov and T. Rybalchenko, Multilayer neuro-fuzzy network for short term electric load forecasting, in: E.A. Hirsch et al. (Eds.), *Computer Science – Theory and Applications*, Lecture Notes in Computer Science 5010, Springer-Verlag, Heidelberg, 2008, pp. 339-348.
- [135] Y. Bodyanskiy, S. Popov and A. Stephan, Harmonic components detection in stochastic sequences using artificial neural networks, in: N.E. Mastorakis (Ed.), *Computational Intelligence and Applications*, Piraeus: WSES Press, 1999, pp. 162-166.
- [136] Y.V. Bodyanskiy and N.A. Teslenko, Adaptive learning of fuzzy BSB and GBSB neural models, *Cybernetics and Systems Analysis*, 42 (2006) 786-794.
- [137] Y.V. Bodyanskiy, O.K. Tyshchenko and D.S. Kopaliani, A multidimensional cascade neuro-fuzzy system with neuron pool optimization in each cascade *I.J. Information Technology and Computer Science*, 8 (2014) 11-17.
- [138] Y. Bodyanskiy, O. Tyshchenko and D. Kopaliani, A hybrid cascade neural network with an optimized pool in each cascade, *Soft Comput.*, 19 (2015) 3445-3454.

- [139] Y. Bodyanskiy and Y. Viktorov, The cascade neo-fuzzy architecture using cubic-spline activation functions, *International Journal "Information Theories & Applications"*, 16 (2009) 245-259.
- [140] Y. Bodyanskiy, Y. Viktorov and I. Pliss, The cascade growing neural network using quadratic neurons and its learning algorithms for on-line information processing, *International Journal "Information Technologies and Knowledge"*, 3 (2009) 25-32.
- [141] E.V. Bodyanskiy, N.A. Voloshina and N.V. Ryabova, About ontology matching approach based on adaptive machine learning (in Russian), *Eastern-European Journal of Enterprise Technologies*, 5 No. 2(53) (2011) 15-18.
- [142] Y.V. Bodyanskiy, S.A. Vorobyov and A. Stephan, Adaptive search of autoregression model order, Proc. 15th IMACS World Congr. Scientific Computation, Modeling and Applied Mathematics, Berlin, Germany, Aug. 24-29, 1997.
- [143] E.V. Bodyanskii, S.A. Vorob'ev and A. Shtefan, Algorithm for adaptive identification of dynamical parametrically nonstationary objects, *Journal of Computer and Systems Sciences International*, 38 (1999) 14-18.
- [144] E.V. Bodyanskiy and O.A. Vynokurova, Type-2 wavelet-neuro-fuzzy system and its learning algorithm in the data mining (in Russian), *Adaptivni Sistemi Avtomatichnovo Upravlinija*, 17(37) (2010) 139-148.
- [145] Y. Bodyanskiy and O. Vynokurova, Hybrid type-2 wavelet-neuro-fuzzy network for prediction of business processes, *Prace Naukowe Uniwersytetu Ekonomicznego we Wrocławiu. Informatyka Ekonomiczna*, 21 (2011) 9-21.
- [146] Y. Bodyanskiy and O. Vynokurova, Hybrid adaptive wavelet-neuro-fuzzy system for chaotic time series identification, *Information Sciences*, 220 (2013) 170-179.
- [147] Y. Bodyanskiy, O. Vynokurova and N. Teslenko, Cascade GMDH-wavelet-neuro-fuzzy network, 4th International Workshop on Inductive Modelling IWIM'2011, Kyiv, Ukraine, July 4-11, 2011.
- [148] Y. Bodyanskiy, Y. Zaychenko, E. Pavlikovskaya, M. Samarina and Y. Viktorov, The neo-fuzzy neural network structure optimization using the GMDH for the solving forecasting and classification problems, IWIM 2009, Sep. 14-19th, Krynica, Poland.
- [149] Ye. Bodyanskiy, Yu. Zaychenko, G. Hamidov and N. Kulishova, Multilayer GMDH-neuro-fuzzy network based on extended neo-fuzzy neurons and its application in online facial expression recognition, *System Research & Information Technologies*, 3 (2020), 66-77.
- [150] G. Böhm and G. Rossi, A. Vesnaver, Adaptive regridding in 3D reflection tomography, *Annals of Geophysics*, 40 (1997) 69-83.
- [151] M. Bolten, A. Brandt, J. Brannick, A. Frommer, K. Kahl and I. Livshits, A Bootstrap algebraic multilevel method for Markov chains, *SIAM J. Sci. Comput.*, 33 (2011) 3425-3446.
- [152] E.G. Boman, K. Dewese and J.R. Gilbert, Comparing different cycle bases for a Laplacian solver, The Sixth SIAM Workshop on Combinatorial Scientific Computing, Lyon, France, July 21-23, 2014, pp. 54-55.
- [153] E.G. Boman, K. Dewese and J.R. Gilbert, Evaluating the dual randomized Kaczmarz Laplacian linear solver, *Informatica*, 40 (2016) 95-107.
- [154] C. Bopp, *The Proton as a Dosimetric and Diagnostic Probe*, Ph.D. Thesis, Université de Strasbourg, France, 2014.
- [155] L. Borcea, *Direct and Inverse Problems for Transport in High Contrast Media*, Ph.D. Thesis, Stanford University, CA, USA, 1996.
- [156] L. Borcea, J.G. Berryman and G.C. Papanicolaou, High-contrast impedance tomography, *Inverse Problems*, 12 (1996) 835-858.
- [157] M.N. Boroujerdi, S. Haghighatshoary and G. Caire, Low-complexity statistically robust precoder/detector computation for massive MIMO systems, *IEEE Transactions on Wireless Communications* (2018), DOI: 10.1109/TWC.2018.2860951.
- [158] R. Borgard, S.N. Harding, H. Duba, C. Makdad, J. Mayfield, R. Tuggle and E. Weber, Accelerating the distributed Kaczmarz algorithm by strong over-relaxation, *Linear Algebra and its Applications*, 611(2021), 334-355.
- [159] D. Borra and F. Fagnani, Asynchronous distributed calibration of camera networks, European Control Conference, Zürich, Switzerland, July 17-19, 2013, pp. 754-759.
- [160] M.N. Boroujerdi, A. Abbasfar and M. Ghanbari, Efficient beamforming scheme in distributed massive MIMO system, 2018 IEEE 10th International Symposium on Turbo Codes & Iterative Information Processing (ISTC), Hong Kong, 3-7 Dec. 2018.
- [161] J. Borreguero, F. Galve, J.M. Algarín, J.M. Benlloch and J. Alonso, Slice-selective zero echo time imaging of ultra-short T_2 tissues based on spin-locking, arXiv:2201.06305v1 (2022).

- [162] J. Borreguero, F. Galve, J.M. Algarín and J. Alonso, Zero-echo-time sequences in highly inhomogeneous fields, arXiv:2405.18960v1 (2024).
- [163] J. Borreguero, F. Galve, J.M. Algarín, J.M. Benloch and J. Alonso, Low field slice-selective ZTE imaging of ultra-short T_2 tissues based on spin-locking, *Scientific Reports* (2023) 13:1662, <https://doi.org/10.1038/s41598-023-28640-x>.
- [164] M. Bouaziz, *Réseaux de neurones récurrents pour la classification de séquences dans des flux audiovisuels parallèles*, Ph.D. Thesis, Université d'Avignon, France, 2017.
- [165] K. Brackenridge, Multigrid and cyclic reduction applied to the Helmholtz equation, Sixth Copper Mountain Conference on Multigrid Methods, Part 1, 1993, pp. 31-41.
- [166] R.B. Bramley, *Row Projection Methods for Linear Systems*, Ph.D. Thesis, University of Illinois at Urbana-Champaign, USA, 1989.
- [167] R. Bramley and Y. Lee, Partial row projection methods, Colorado Conference on Iterative Methods, April 1996 (13 pp).
- [168] R. Bramley and A. Sameh, A robust parallel solver for block tridiagonal systems, ICS '88 Proceedings of the 2nd International Conference on Supercomputing, 1988, pp. 39-54.
- [169] R. Bramley and A. Sameh, Domain decomposition for parallel row projection algorithms, *Applied Numerical Mathematics*, 8 (1991) 303-315.
- [170] R. Bramley and A. Sameh, Row projection methods for large nonsymmetric linear systems, *SIAM J. Sci. Stat. Comput.*, 13 (1992) 168-193.
- [171] A. Brandt, Algebraic multigrid theory: The symmetric case, *Applied Mathematics and Computation*, 19 (1986) 23–56.
- [172] A. Brandt, Multigrid methods in lattice field computations, *Nuclear Physics B - Proceedings Supplements*, 26 (1992) 137-180.
- [173] A. Brandt, Rigorous quantitative analysis of multigrid, I. Constant coefficients two-level cycle with L_2 -norm, *SIAM J. Numer. Anal.*, 31 (1994) 1695-1730.
- [174] C. Brandt and C. Schmidt, Modeling magnetic particle imaging for dynamic tracer distributions, arXiv:2106.13102v1, 2021.
- [175] J. Brandts and R.R. da Silva, A subspace-projected approximate matrix method for systems of linear equations, *East Asian Journal on Applied Mathematics*, 3 (2013) 120-137.
- [176] J. Brannick, K. Kahl and S. Sokolovic, An adaptively constructed algebraic multigrid preconditioner for irreducible Markov chains, arXiv:1402.4005v1 (2014).
- [177] C. Brezinski, Hybrid procedures and semi-iterative methods for linear systems, Technical Note, Université des Sciences et Technologies de Lille, 1995.
- [178] C. Brezinski, Projection methods for linear systems, *Journal of Computational and Applied Mathematics*, 77 (1997) 35-51.
- [179] C. Brezinski, Projection Methods for Systems of Equations, In: *Studies in Computational Mathematics 7*, Elsevier Science Publishers, Amsterdam, The Netherlands, 1997.
- [180] C. Brezinski, Multiparameter descent methods, *Linear Algebra and its Applications*, 296 (1999) 113-141.
- [181] C. Brezinski, Acceleration procedures for matrix iterative methods, *Numerical Algorithms*, 25 (2000) 63-73.
- [182] C. Brezinski, G. Meurant, M. Redivo-Zaglia, *A Journey through the History of Numerical Linear Algebra*, SIAM, 2022.
- [183] C. Brezinski and M. Redivo-Zaglia, The simplified topological ε -algorithms for accelerating sequences in a vector space, *SIAM J. Sci. Comput.*, 36 (2014) A2227–A2247.
- [184] C. Brezinski and M. Redivo-Zaglia, Convergence acceleration of Kaczmarz's method, *Journal of Engineering Mathematics*, 93 (2015) 3-19.
- [185] J. Briskman and D. Needell, Block Kaczmarz method with inequalities, *Journal of Mathematical Imaging and Vision*, 52 (2015) 385-396.
- [186] R. Brociek, M. Pleszczyński, A. Zielonka, A. Wajda, S. Coco, G. Lo Sciuto and C. Napoli, Application of heuristic algorithms in the tomography problem for pre-mining anomaly detection in coal seams, *Sensors*, 22 (2022) 7297.
- [187] J.C. Browne, M. Yalamanchi, K. Kane and K. Sankaralingam, General parallel computations on desktop grid and P2P systems, LCR '04 Proceedings of the 7th workshop on Workshop on languages, compilers, and run-time support for scalable systems, pp. 1-8.

- [188] J.J. Brust and M.A. Saunders, PLSS: A projected linear systems solver, arXiv:2207.07615v1 (2022).
- [189] B. Budden, *Characterization and Prototyping of the Rotating Modulator Hard X-ray / Gamma-ray Telescope*, Ph.D. Thesis, Louisiana State University, USA, 2011.
- [190] D. Bunnag and M. Sun, Genetic algorithm for constrained global optimization in continuous variables, *Applied Mathematics and Computation*, 171 (2005) 604-636.
- [191] N. Buong and P.V. Son, An explicit iteration method for convex feasibility problems in Hilbert spaces, *Applied Mathematical Sciences*, 2 (2008) 725-734.
- [192] M. Burger, J.-F. Pietschmann and M.-T. Wolfram, Identification of nonlinearities in transport-diffusion models of crowded motion, *Inverse Problems and Imaging*, 7 (2013) 1157-1182.
- [193] P. Bühlmann, *Laser Speckle Background Oriented Schlieren Imaging for Near-Wall Measurements*, Ph.D. Thesis, ETH Zurich, Swiss, 2020.
- [194] P. Büschel, *Streamlining Berechnung des erweiterten Zeitkonstantendichtespektrums aus Zeitdaten für die Diagnose von Lithium Ionen Batterien*, Ph.D. Thesis, Technische Universität Chemnitz, Germany (2022).
- [195] P. Büschel, T Günther and O. Kanoun, Distribution of relaxation times for effect identification and modeling of impedance spectra, IEEE International Conference on Instrumentation and Measurement Technology, Montevideo, 12-15 May 2014, pp. 901-904.
- [196] D. Butnariu and Y. Censor, On the behavior of a block-iterative projection method for solving convex feasibility problems, *Intern. J. Computer Math*, 34 (1990) 79-94.
- [197] D. Butnariu and S.D. Flåm, Strong convergence of expected-projection methods in Hilbert spaces, *Numer. Funct. Anal. and Optimiz.*, 16 (1995) 601-636.
- [198] D. Butnariu and A. Mehrez, Convergence criteria for generalized gradient methods of solving locally Lipschitz feasibility problems, *Computational Optimization and Applications*, 1 (1992) 307-326.
- [199] D. Butnariu, S. Reich and A.J. Zaslavski, Convergence to fixed points of inexact orbits of Bregman-monotone and of nonexpansive operators in Banach spaces, In: H. F. Nathansky, B.G. de Buen, K. Goebel, W. Kirk, B. Sims (Eds.), *Fixed Point Theory and its Applications*, Yokohama Publishers, 2006.
- [200] J.-W. Buurlage, Real-time tomographic reconstruction, Ph.D. Thesis, Universiteit Leiden, Netherlands, 2020.
- [201] J.W. Buurlage, R.H. Bisseling and K.J. Batenburg, A geometric partitioning method for distributed tomographic reconstruction, *Parallel Computing*, 81 (2019) 104–121.
- [202] A. Buzmakov, M. Chukalina, D. Nikolaev, V. Gulimova, S. Saveliev, E. Tereschenko, A. Seregin, R. Senin, D. Zolotov, V. Prun, G. Shaefer and V Asadchikov, Monochromatic computed microtomography using laboratory and synchrotron sources and X-ray fluorescence analysis for comprehensive analysis of structural changes in bones, *Journal of Applied Crystallography*, 48 (2015) 693-701.
- [203] T.M. Buzug, *Einführung in die Computertomographie. Mathematisch-physikalische Grundlagen der Bildrekonstruktion*, Springer, Berlin, 2004.
- [204] T.M. Buzug, *Computed Tomography. From Photon Statistics to Modern Cone-Beam CT*, Springer, Berlin (2008).
- [205] C.L. Byrne, Convergent block-iterative algorithms for image reconstruction from inconsistent data, *IEEE Transactions on Image Processing*, 6 (1997) 1296-1304.
- [206] C.L. Byrne, Accelerating the EML algorithm and related iterative algorithms by rescaled block-iterative methods, *IEEE Transactions Image Proces.*, 7 (1998) 100-109.
- [207] C. Byrne, Iterative projection onto convex sets using multiple Bregman distances, *Inverse Problems*, 15 (1999) 1295-1313.
- [208] C. Byrne, Iterative oblique projection onto convex sets and the split feasibility problem, *Inverse Problems*, 18 (2002) 441-453.
- [209] C. Byrne, A unified treatment of some iterative algorithms in signal processing and image reconstruction, *Inverse Problems*, 20 (2004) 103-120.
- [210] C. Byrne, *Signal Processing. A Mathematical Approach*, A K Peters, Wellesley, MA, 2005.
- [211] C. Byrne, *Discrete Signal Processing Notes*, 2006. (<http://faculty.uml.edu/cbyrne/dspn.pdf>)
- [212] C.L. Byrne, *Iterative Algorithms in Inverse Problems*, Lecture Notes, 2006. (<http://faculty.uml.edu/cbyrne/ITER2.pdf>)
- [213] C.L. Byrne, *Applied Iterative Methods*, A K Peters, Wellesley, MA, 2008.

- [214] C.L. Byrne, Signal Processing for Medical Imaging, Signal Processing for Medical Imaging, Lecture Notes, 2008. <http://faculty.uml.edu/cbyrne/cbyrne.htm>
- [215] C.L. Byrne, *Applied and Computational Linear Algebra: A First Course*, Lecture Notes, 2009. (<http://faculty.uml.edu/cbyrne/cbyrne.html>)
- [216] C.L. Byrne, Problems and Algorithms in Continuous Optimization. Lecture Notes. (<http://faculty.uml.edu/cbyrne/cbyrne.html>)
- [217] C.L. Byrne, Continuous Optimization, Lecture Notes, 2013. (<http://faculty.uml.edu/cbyrne/cbyrne.html>)
- [218] C.L. Byrne, *Iterative Optimization in Inverse Problems*, CRC Press, Boca Raton, 2014.
- [219] C.L. Byrne, *A First Course in Optimization*, Lecture Notes, 2014. (<http://faculty.uml.edu/cbyrne/optshort.pdf>)
- [220] C.L. Byrne, *Applied and Computational Linear Algebra: A First Course*. (faculty.uml.edu/cbyrne/aclafctext.pdf)
- [221] C. Byrne, The Agmon–Motzkin–Schoenberg algorithm ResearchGate, 2020.
- [222] C. Byrne, The nonnegative ART is a particular case of the Agmon–Motzkin–Schoenberg algorithm, ResearchGate, 2020.
- [223] C. Byrne, The nonnegative ART is a particular case of the Agmon–Motzkin–Schoenberg algorithm: An update, ResearchGate, 2020.
- [224] C.L. Byrne, Shannon entropy maximization and the simultaneous MART, Research Gate, 2020.
- [225] C.L. Byrne, Multiple-distance generalized projection algorithms for convex feasibility, Research Gate, 2020.
- [226] C.L. Byrne, Block-iterative (ordered-subset) methods as partial-gradient algorithms for acceleration, researchgate.net (2024)
- [227] C. Byrne, The easy MART (EMART) and multi-distance sequential generalized projection (MSGP) algorithms for consistent feasibility problems, Research Gate (2024), <https://www.researchgate.net/publication/380890277>.
- [228] C.L. Byrne, Multi-distance block-iterative Bregman-retraction algorithms, Research Gate (2024).
- [229] C.L. Byrne, Multi-distance block-iterative Bregman-retraction algorithms: Part II, ResearchGate (2024).
- [230] C. Byrne, D. Gordon and D. Heilper, Models for biomedical image reconstruction based on integral approximation methods, 9th IEEE International Symposium on Biomedical Imaging, Barcelona, 2-5 May 2012, pp.70-73.
- [231] C.L. Byrne and J. Graham-Eagle, Convergence properties of the algebraic reconstruction technique (ART), IEEE Nuclear Science Symposium and Medical Imaging Conference, Orlando, FL, 25-31 Oct 1992, pp. 1240-1242 (vol.2).
- [232] J. Cai and Y. Tang, A new randomized Kaczmarz based kernel canonical correlation analysis algorithm with applications to information retrieval, *Neural Networks* 98 (2018) 178–191.
- [233] G. Calafiore and B.T. Polyak, Stochastic algorithms for exact and approximate feasibility of robust LMIs - Automatic Control, *IEEE Transactions on Automatic Control*, 46 (2001) 1755-1759.
- [234] Y. Calderón, *Design, Development, and Modeling of a Compton Camera Tomographer Based on Room Temperature Solid State Pixel Detector*, Ph.D. Thesis, Universidad Autónoma de Barcelona, Spain, 2014.
- [235] J.J. Calvino, E. Fernández, M. López-Haro, J.M. Muñoz-Ocaña and A.M. Rodríguez-Chía, Using the l_1 -norm for image-based tomographic reconstruction, *Expert Systems With Applications*, 232 (2023) 120848.
- [236] W M. Campbell, An iterative technique for training speaker verification systems, IEEE International Conference on Acoustics, Speech, and Signal Processing, Istanbul, Turkiye, 05 Jun - 09 Jun 2000, pp. 1185-1188 (vol.2).
- [237] W.M. Campbell, K. Torkkola and S.V. Balakrishnan, Dimension reduction techniques for training polynomial networks, Proc. 17th Intern Conference on Machine Learning (2000) (8 pp).
- [238] C .Camrud, E. Camrud, L. Przybylski and E.S. Weber, Stability of the Kaczmarz reconstruction for stationary sequences, *Complex Analysis and Operator Theory*, 13(2019), 3405–3427. arXiv:1906.08367v1, 2019.
- [239] H.-T. Cao, T.E. Gibson, S. Mou and Y.-Y. Liu, Impacts of network topology on the performance of a distributed algorithm solving linear equations, arXiv:1603.04154v1 (2016).
- [240] D. Carmona-Ballester, J.M. Trujillo-Sevilla, S. Bonaque-González, Ó. Gómez-Cárdenes, and J.M. Rodríguez-Ramos, Weighted nonnegative tensor factorization for atmospheric tomography reconstruction, *Astronomy & Astrophysics*, 614, A41 (2018), 8 pages. <https://doi.org/10.1051/0004-6361/201832597>.

- [241] E.C. Carrubé, *Three-Dimensional Spatial Distribution of Scatterers in the Crust by Inversion Analysis of s-Wave Coda Envelopes. A Case Study of Gauribidanur Seismic Array Site (Southern India) and Galeras Volcano (South-Western Colombia)*, Ph.D. Thesis, Universitat Ramon Llull, Barcelona, Spain 2006.
- [242] G. Cassiani, G. Bohm, A. Vesnaver and R. Nicolich, A geostatistical framework for incorporating seismic tomography auxiliary data into hydraulic conductivity, *Journal of Hydrology*, 206 (1998) 58-74.
- [243] J.D. Caytas, Legacies from a Holocaust of the mind, *Review of European Studies*, 11 (2019) 86-105.
- [244] A. Cegielski, *Relaxation Methods in Convex Optimization Problems* (in Polish), Monographs, Vol. 67, Institute of Mathematics, Higher College of Engineering, Zielona Góra, 1993.
- [245] A. Cegielski, On the Kaczmarz method (in Polish), *Wiadomości Matematyczne*, 46 (2010) 27-36.
- [246] A. Cegielski, *Iterative Methods for Fixed Point Problems in Hilbert Spaces*, Lecture Notes in Mathematics 2057, Springer, Heidelberg, 2012.
- [247] A. Cegielski and Y. Censor, Extrapolation and local acceleration of an iterative process for common fixed point problems, *J. Math. Anal. Appl.* 394, (2012) 809-818.
- [248] A. Cegielski and N. Nimana, Extrapolated cyclic subgradient projection methods for the convex feasibility problems and their numerical behaviour, *Optimization*, (2018) DOI: 10.1080/02331934.2018.1509214 (published on line).
- [249] K. Cengiz and M. Kamasak, Comparison of algebraic reconstruction techniques for tomosynthesis systems, International Conference on Signals and Image Processing, Dubrovnik, Croatia, 12-15 May 2014, pp. 15-18.
- [250] C. Cenker, H.G. Feichtinger, M. Mayer, H. Steier and T. Strohmer, New variants of the POCS method using affine subspaces of finite codimension, with applications to irregular sampling, Proc. SPIE: Visual Communications and Image Processing, 1992.
- [251] Y. Censor, Row-action methods for huge and sparse systems and their applications, *SIAM Review*, 23 (1981) 444-465.
- [252] Y. Censor, Finite series-expansion reconstruction methods, *Proceedings of the IEEE*, 71 (1983) 409-419.
- [253] Y. Censor, Parallel application of block-iterative methods in medical imaging and radiation therapy, *Mathematical Programming*, 42 (1988) 307-325.
- [254] Y. Censor, Binary steering in discrete tomography reconstruction with sequential and simultaneous iterative algorithms, *Linear Algebra Appl.*, 339 (2001) 111-124.
- [255] Y. Censor, M.D. Altschuler and W.D. Powlis, On the use of Cimmino's simultaneous projections method for computing a solution of the inverse problem in radiation therapy treatment planning, *Inverse Problems*, 4 (1988) 607-623.
- [256] Y. Censor and A. Cegielski, Projection methods: an annotated bibliography of books and reviews, *Optimization*, 64 (2015) 2343-2358.
- [257] Y. Censor, W. Chen, P.L. Combettes, R. Davidi and G.T. Herman, On the effectiveness of projection methods for convex feasibility problems with linear inequality constraints, *Comput. Optim. Appl.*, 51 (2012) 1065-1088.
- [258] Y. Censor, P.P.B. Eggermont and D. Gordon, Strong underrelaxation in Kaczmarz's method for inconsistent systems, *Numerische Mathematik*, 41 (1983) 83-92.
- [259] Y. Censor and T. Elfving, New methods for linear inequalities, *Linear Algebra Appl.*, 42 (1982) 199-211.
- [260] Y. Censor and T. Elfving, Block-iterative algorithms with diagonally scaled oblique projections for the linear feasibility problem, *SIAM J. Matrix Anal. Appl.*, 24 (2002) 40-58.
- [261] Y. Censor, T. Elfving and G.T. Herman (Eds.), Linear algebra in image reconstruction from projections, *Linear Algebra Appl.* 130 (1990).
- [262] Y. Censor, E. Garduño, E.S. Helou and G.T. Herman, Derivative-free superiorization: Principle and algorithm, *Numerical Algorithms* (2020), published on line <https://doi.org/10.1007/s11075-020-01038-w>
- [263] Y. Censor, D. Gordon and R. Gordon, Component averaging: An efficient iterative parallel algorithm for large and sparse unstructured problems, *Parallel Computing*, 27 (2001) 777-808.
- [264] Y. Censor, D. Gordon and R. Gordon, BICAV: A block-iterative parallel algorithm for sparse systems with pixel-related weighting, *IEEE T Med. Imaging*, 20 (2001) 1050-1060.
- [265] Y. Censor and G.T. Herman, On some optimization techniques in image reconstruction from projections, *Applied Numerical Mathematics*, 3 (1987) 365-391.

- [266] Y. Censor, G.T. Herman and M. Jiang, A note on the behavior of the randomized Kaczmarz algorithm of Strohmer and Vershynin, *Journal of Fourier Analysis and Applications*, 15 (2009) 431-436.
- [267] Y. Censor and J. Unkelbach, From analytic inversion to contemporary IMRT optimization: Radiation therapy planning revisited from a mathematical perspective, *Physica Medica*, 28 (2012) 109-118.
- [268] Y. Censor, M. Zaknoon, Algorithms and convergence results of projection methods for inconsistent feasibility problems: A review, arXiv:1802.07529v1 (2018).
- [269] Y. Censor and S.A. Zenios, *Parallel Optimization, Theory, Algorithms and Applications*, Oxford University Press, New York 1997.
- [270] N. Cesa-Bianchi, P.M. Long and M.K. Warmuth, Worst-case quadratic loss bounds for a generalization of the Widrow-Hoff rule, in: Proceedings COLT '93 Proceedings of the Sixth Annual Conference on Computational Learning Theory, ACM New York, 1993, pp. 429-438.
- [271] N. Cesa-Bianchi, P.M. Long and M.K. Warmuth, Worst-case quadratic loss bounds for prediction using linear functions and gradient descent, *IEEE Transactions on Neural Networks*, 7 (1996) 604-619.
- [272] A. De Cezaro, J. Baumeister and A. Leitão, Modified iterated Tikhonov methods for solving systems of nonlinear ill-posed equations, *Inverse Problems and Imaging*, 5 (2011) 1-17.
- [273] A. De Cezaro and F.T. De Cezaro, Uniqueness and regularization for unknown spacewise lower-order coefficient and source for the heat type equation, arXiv:1210.7348v1 (2012).
- [274] A. De Cezaro, M. Haltmeier, A. Leitão and O. Scherzer, On Steepest-Descent-Kaczmarz methods for regularizing systems of nonlinear ill-posed equations, *Applied Mathematics and Computation*, 202 (2008) 596-607.
- [275] A. De Cezaro and J.P. Zubelli, The tangential cone condition for the iterative calibration of local volatility surfaces, *IMA Journal of Applied Mathematics*, 80 (2015) 212-232.
- [276] D. Chang, C.R. Edwards, F. Zhang and J. Sun, A data assimilation framework for data driven flow models enabled by motion tomography, *International Journal of Intelligent Robotics and Applications*, 3 (2019) 158-177.
- [277] T. Chanwimalueang, M. Sangworasil and C. Pintavirooj, Experimental investigation of arbitrary-orientation cone-beam X-ray tomography, World Congress on Medical Physics and Biomedical Engineering 2006, Volume 14 of the series IFMBE Proceedings, pp. 2532-2535.
- [278] R. Chartrand, E.Y. Sidky and X. Pan, Nonconvex compressive sensing for X-ray CT: an algorithm comparison, IEEE Conference on Signals, Systems and Computers, Asilomar, Pacific Grove, CA, 3-6 Nov. 2013, pp. 665-669.
- [279] E. Chau, On application of block Kaczmarz methods in matrix factorization, arXiv:2010.10635v1 (2020).
- [280] E. Chau, *On application of block Kaczmarz methods in low-rank matrix factorization*, *SIAM Undergraduate Research Online*, 15 (2022), 96-109, DOI: 10.1137/20S1376467.
- [281] S.H. Chaudhary and P. Munshi, Computation and storage efficient sparse MART algorithm for 2-D, 3-D reconstruction from fan beam, cone-beam projection data, *Research in Nondestructive Evaluation* 32 (2021), 115-131.
- [282] R. Chelappa, B. Girod, D.C. Munson Jr., M. Tekalp and M. Vetterli, The past, present, and future of image and multidimensional signal processing, *IEEE Signal Processing Magazine*, 15 (1998) 21-58.
- [283] F. Chen and J.-F. Mao, A modified partially randomized extended Kaczmarz iteration method, *Applied Mathematics Letters*, 154 (2024), 109102.
- [284] J.R. Chen, S.J. Xu, H.C. Liu, J.Q. Huang, Y.Z. Liu and W.W. Cai, Untrained neural network for linear tomographic absorption spectroscopy, *Science China Technological Sciences*, 67 (2024), 2787-2796.
- [285] L. Chen and H. Wu, A preconditioner based on non-uniform row sampling for linear least squares problems, arXiv:1806.02968v1 (2018).
- [286] X. Chen, *Stability of Compressed Sensing for Dictionaries and Almost Sure Convergence Rate for the Kaczmarz Algorithm*, Ph.D. Thesis, Faculty of the Graduate School of Vanderbilt University, Nashville, Tennessee, USA, 2012.
- [287] X. Chen, The Kaczmarz algorithm, row action methods, and statistical learning algorithms. *Frames and Harmonic Analysis*, 706 (2018), 115-127.
- [288] X. Chen, Kaczmarz algorithm, row action methods, and statistical learning algorithms, *Contemporary Mathematics*, 706 (2018).
- [289] J. Chen, W. E and Y. Sun, Optimization of random feature method in the high-precision regime, *Communications on Applied Mathematics and Computation* (2024) <https://doi.org/10.1007/s42967-024-00389-8>.

- [290] J.-Q. Chen and Z.-D. Huang, On the error estimate of the randomized double block Kaczmarz method, *Applied Mathematics and Computation*, 370 (2020), 124907.
- [291] J.-Q. Chen and Z.-D. Huang, On a fast deterministic block Kaczmarz method for solving large-scale linear systems, *Numerical Algorithms*, (2021), published on line. <https://doi.org/10.1007/s11075-021-01143-4>.
- [292] X. Chen and A.M. Powell, Almost sure convergence of the Kaczmarz algorithm with random measurements, *Journal of Fourier Analysis and Applications*, 18 (2012) 1195–1214.
- [293] X. Chen and A.M. Powell, Randomized Subspace Actions and Fusion Frames, *Constructive Approximation*, 43 (2016) 103-134.
- [294] X. Chen and J. Qin, Regularized Kaczmarz algorithms for tensor recovery, arXiv:2102.06852v1 (2021).
- [295] C. Chen and G. Xu, Computational inversion of electron micrographs using L_2 -gradient flows – convergence analysis, *Math. Meth. Appl. Sci.*, 36 (2013) 2492-2506.
- [296] C.-C. Cheng, P.-H. Li and Y.-T. Ching, Acceleration of iterative tomographic image reconstruction by reference-based back projection, Proc. SPIE 9783, Medical Imaging 2016: Physics of Medical Imaging, 97834S (2016). doi:10.1117/12.2216363.
- [297] Y. Chen, H. Zhang, and D.W. Eaton, Real time earthquake location based on the Kalman filter formulation, *Geophysical Research Letters*, (2020), 11 pages.
- [298] S.P. Chepuri, Factor analysis from quadratic sampling, *IEEE Signal Processing Letters*, 25 (2018) 65 - 69.
- [299] Y. Chi and Y.M. Lu, Kaczmarz method for solving quadratic equations, *IEEE Signal Processing Letters* 23 (2016) 1183 - 1187.
- [300] J.W. Chinneck, *Feasibility and Infeasibility in Optimization. Algorithms and Computational Methods*, Springer-Verlag, New York, 2008.
- [301] P.S. Cho, S. Lee, R.J. Marks II, S. Oh, S.G. Sutlief and M.H. Phillips, Optimization of intensity modulated beams with volume constraints using two methods: Cost function minimization and projections onto convex sets, *Med. Phys.*, 25 (1998) 435-443.
- [302] H. Choi, *Evaluation of Internal Damage in Reinforced Concrete Elements Using Ultrasonic Tomography*, Ph.D. Thesis, University of Illinois, USA, 2016.
- [303] S. Choi, Y.-S. Kim, H. Lee, D. Lee, C.-W. Seo and H.-J. Kim, Imaging characteristics of distance-driven method in a prototype cone-beam computed tomography (CBCT), Proc. SPIE 9783, Medical Imaging 2016: Physics of Medical Imaging, 97832U (2016). doi:10.1117/12.2216483.
- [304] E.K.P. Chong and S.H. Žak, *An Introduction to Optimization*, Wiley, NY, 2001.
- [305] T.M. Chow, D.A. Hutchins and J.T. Mottram, Simultaneous acoustic-emission and ultrasonic tomographic imaging in anisotropic polymer composite-material, *Journal of the Acoustical Society of America*, 94 (1993) 944-953.
- [306] S. Chretien and P. Bondon, Cyclic projection methods on a class of nonconvex sets, *Numer. Funct. Anal. and Optimiz.*, 17 (1996) 37-56.
- [307] J. Chung, M. Chung, J.T. Slagel and L. Tenorio, Stochastic Newton and quasi-Newton methods for large linear least-squares problems, arXiv:1702.07367v1, 2017.
- [308] J. Chung, M. Chung, J.T. Slagel and L. Tenorio, Sampled limited memory methods for massive linear inverse problems, *Inverse Problems*, 36 (2020) 054001.
- [309] J. Chung, M. Chung, J.T. Slagel, and L. Tenorio, Sampled limited memory methods for massive least squares problems, in Book of abstracts of the XXI Householder Symposium on Numerical Linear Algebra, June 14-19, 2020.
- [310] J. Chung, P. Sternberg and C. Yang, High-performance three-dimensional image reconstruction for molecular structure determination, *International Journal of High Performance Computing Applications*, 24 (2010) 117-135.
- [311] A. Cichocki, R. Unbehauen, Simplified neural networks for solving linear least-squares and total least-squares problems in real-time, *IEEE Transactions on Neural Networks*, 5 (1994) 910-923.
- [312] R. Cierniak, A 2D approach to tomographic image reconstruction using a Hopfield-type neural network, *Artificial Intelligence in Medicine*, 43 (2008) 113-125.
- [313] R. Cierniak, A new approach to image reconstruction from projections using a recurrent neural network, *Int. J. Appl. Math. Comput. Sci.*, 18 (2008) 147-157
- [314] R. Cierniak, New neural network algorithm for image reconstruction from fan-beam projections, *Neurocomputing*, 72 (2009) 3238-3244.

- [315] R. Cierniak, Neural network algorithm for image reconstruction using the “grid-friendly” projections, *Australas. Phys. Eng. Sci. Med.*, 34 (2011) 375-389.
- [316] R. Cierniak, Algebraic reconstruction techniques, in: R. Cierniak *X-Ray Computed Tomography in Biomedical Engineering*, Springer, London, 2011, pp. 233-265.
- [317] R. Cierniak, A practical approach to image reconstruction from projections using neural networks structure, in: *Neural Networks and Soft Computing*, Advances in Soft Computing, Vol. 19, 2003, pp. 456-461.
- [318] R. Cierniak, An analytical iterative statistical algorithm for image reconstruction from projections, *International Journal of Applied Mathematics and Computer Science*, 24 (Mar 2014) 7-17.
- [319] R. Cierniak and A. Lorent, A neuronal approach to the statistical image reconstruction from projections problem, In: N.T. Nguyen, K. Hoang, P. Jędrzejowicz (Eds.) *Computational Collective Intelligence. Technologies and Applications*, Lecture Notes in Computer Science, vol 7653. Springer, Berlin, Heidelberg, 2012.
- [320] R.E. Clyne and L.D. Pyle, Generalized inverse in linear-programming – an intersection projection method and solution of a class of structured linear-programming problems, *SIAM Journal on Applied Mathematics*, 24 (1973) 338-351.
- [321] A. Coco and G. Russo, A finite difference ghost-cell multigrid approach for Poisson equation with mixed boundary conditions in arbitrary domain, arXiv:1111.0983v1 (2011).
- [322] A. Coco and G. Russo, Finite-difference ghost-point multigrid methods on Cartesian grids for elliptic problems in arbitrary domains, *Journal of Computational Physics*, 241 (2013) 464-501.
- [323] A. Coene, *Non-Invasive Methods for Spatial and Quantitative Reconstructions of Magnetic Nanoparticles Using Electron Paramagnetic Resonance and Magnetorelaxometry*, Ph.D. Thesis, Ghent University, Belgium, 2017
- [324] J.G. Colsher, Iterative three-dimensional image reconstruction from tomographic projections, *Computer Graphics and Image Processing*, 6 (1977) 513-537.
- [325] P.L. Combettes, Convex set theoretic image recovery: History, current status, and new directions, *Journal of Visual Communication and Image Representation*, 3 (1992) 307-315.
- [326] P.L. Combettes, The foundations of set theoretic estimations, *Proceedings of the IEEE*, 81 (1993) 182-208.
- [327] P.L. Combettes, The Convex Feasibility Problem in Image Recovery, In: *Advances in Imaging and Electron Physics*, (P. Hawkes, Ed.), Vol. 95, pp. 155-270. New York: Academic Press, 1996.
- [328] P.L. Combettes, Hilbertian convex feasibility problem: Convergence of projection methods, *Appl. Math. Optim.*, 35 (1997) 311-330.
- [329] P.L. Combettes, Solving monotone inclusions via compositions of nonexpansive averaged operators, *Optimization*, 53 (2004) 475-504.
- [330] P.L. Combettes and J.-C. Pesquet, Fixed Point Strategies in Data Science, arXiv:2008.02260v1 (2020).
- [331] P.L. Combettes and H. Puh, Iterations of parallel convex projections in Hilbert spaces, *Numerical Functional Analysis and Optimization*, 15, (1994) 225-243.
- [332] P.L. Combettes and N.N. Reyes, Functions with prescribed best linear approximations, *Journal of Approximation Theory*, 162 (2010) 1095-1116.
- [333] P.L. Combettes and H.J. Trussell, Method of successive projections for finding a common point of sets in metric spaces, *Journal of Optimization Theory and Applications*, 67 (1990) 487-507.
- [334] D.U. Contreras, D. Goyeneche, Flexible quantum state tomography, arXiv:1912.05754v1 (2019).
- [335] D.U. Contreras, G.I. Senno and D.M. Goyeneche, Fast and simple quantum state estimation, *Journal of Physics A: Mathematical and Theoretical*, accepted manuscript, (2021).
- [336] C.Z. Cooley, J.P. Stockmann, B.D. Armstrong, M. Sarracanie, M.H. Lev, M.S. Rosen and L.L. Wald, Two-dimensional imaging in a lightweight portable MRI scanner without gradient coils, *Magnetic Resonance in Medicine*, 73 (2015) 872-883.
- [337] V. Corbas, *Cartographie d'espèces chimiques en combustion par tomographie et spectroscopie d'absorption multifaisceaux*, Ph.D. Thesis, Université Paris-Saclay, France (2019).
- [338] N. Coria, J. Haddock and J. Pacheco, On quantile randomized Kaczmarz for linear systems with time-varying noise and corruption, arXiv:2403.19874v1 (2024)
- [339] V. Croisfelt, T. Abrão, A. Amiri, E. de Carvalho and P. Popovski, Decentralized design of fast iterative receivers for massive and extreme-large MIMO systems, arXiv:2107.11349v1, 2021.

- [340] V. Croisfelt, T. Abrão, A. Amiri, E. de Carvalho and P. Popovski, Decentralized design of fast iterative receivers for massive MIMO with spatial non-stationarities, 2021 55th Asilomar Conference on Signals, Systems, and Computers, (2021), 1242-1249.
- [341] W. Czaja and J.H. Tanis, Kaczmarz algorithm and frames, *Int. J. Wavelets Multiresolut Inf. Process.*, 11, (2013) 1350036, (13 pp).
- [342] L. Dai, M. Soltanalian and K. Pelckmans, On the randomized Kaczmarz algorithm, arXiv:1402.2863v1 (2014).
- [343] Y.-H. Dai, K. Deng and H. Zhang, A cut-and-project perspective for linearized Bregman iterations, arXiv:2404.09776v1 (2024).
- [344] Y. Dang, Y. Gao and L. Zhi, Block-iterative subgradient projection algorithms for the convex feasibility problem, *OR Transactions*, 15 (2011) 59-70.
- [345] P.-E. Danielsson and M.M. Seger, A proposal for combining FBP and ART in CT-reconstruction, 2003 Meeting on Fully 3D-reconstruction, St. Malo, June 30 – July 4, 2003.
- [346] P.-E. Danielsson and M.M. Seger, Combining Fourier and iterative methods in computer tomography. Analysis of an iteration scheme. The 2D-case, Technical Report, Linköping University, Sweden, 2004.
- [347] A. Dax, The convergence of linear stationary iterative processes for solving singular unstructured systems of linear equations, *SIAM Review*, 3 (1990) 611-635.
- [348] A. Dax, A note of the convergence of linear stationary iterative process, *Linear Algebra Appl.*, 129 (1990) 131-142.
- [349] A. Dax, Linear search acceleration of iterative methods, *Linear Algebra Appl.*, 130 (1990) 43-63.
- [350] A. Dax, On hybrid acceleration of a linear stationary iterative process, *Linear Algebra Appl.*, 130 (1990) 99-110.
- [351] A. Dax, A row relaxation method for large l_1 problems, *Linear Algebra Appl.*, 154-156 (1991) 793-818.
- [352] A. Dax, On row relaxation methods for large constrained least-squares problems, *SIAM Journal of Scientific Computing*, 14 (1993) 570-584.
- [353] A. Dax, A row relaxation method for large minimax problems, *BIT Numerical Mathematics*, 33 (1993) 262-276.
- [354] A. Dax, A row relaxation method for large l_p least norm problems, *Numerical Linear Algebra with Applications*, 1 (1994) 247-263.
- [355] A. Dax, A proximal point algorithm for minimax problems, *BIT*, 37 (1997) 600-622.
- [356] A. Dax, On the theory and practice of row relaxation methods, in: *Inherently Parallel Algorithms in Feasibility and Optimization and their Applications*, in: D. Butnariu, Y. Censor, S. Reich (Editors) Elsevier, Amsterdam, 2001, 153-186.
- [357] A. Dax, An open question on cyclic relaxation, *BIT*, 43 (2003) 929-943.
- [358] A. Dax, The adventures of a simple algorithm, *Linear Algebra Appl.*, 361 (2003) 41-61.
- [359] A. Dax, The rate of convergence of the SOR method in the positive semidefinite case, *Computational and Mathematical Methods* (2022), Article ID 6143444, 8 pages.
- [360] A. Dax, Kaczmarz anomaly in tomography problems, *Applied. Math.*, 2 (2022), 196–211.
- [361] A. Dax, Kaczmarz’s anomaly: A surprising feature of Kaczmarz’s method, *Linear Algebra Appl.*, 662 (2023), 136-162.
- [362] S. Delageniere-Guillot, *Utilisation d’un modele d’objet en reconstruction d’image tridimensionnelle: application à l’imagerie médicale*, Ph.D. Thesis, Polytechnique de Grenoble, France, 1993.
- [363] J.E. Dendy, Black-box multigrid for nonsymmetric problems, *Applied Mathematics and Computation*, 13 (1983) 261-283.
- [364] M.J. Dennis, Computed tomography, In: *Encyclopedia of Medical Devices and Instrumentation*, Wiley Online Library, 2006, pp. 230-258.
- [365] E.Yu. Derevtsov and I.E. Svetov, Tomography of tensor elds in the plain, *Eurasian Journal of Mathematical and Computer Applications*, 3 (2015) 25-69.
- [366] M. Dereziński, D. LeJeune, D. Needell and E. Rebrova, Fine-grained analysis and faster algorithms for iteratively solving linear systems, arXiv:2405.05818v1 (2024).
- [367] M. Dereziński and M.W. Mahoney, Recent and upcoming developments in randomized numerical linear algebra for machine learning, arXiv:2406.11151v2 (2024).

- [368] M. Dereziński and E. Rebrova, Sharp analysis of sketch-and-project methods via a connection to randomized singular value decomposition, arXiv:2208.09585v1 (2022).
- [369] M. Dereziński and J. Yang, Solving dense linear systems faster than via preconditioning, arXiv:2312.08893v1 (2023).
- [370] S.D. Desai and L. Kulkarni, A Quantitative comparative study of analytical and iterative reconstruction techniques, *International Journal of Image Processing*, 4 (2010) 307-319.
- [371] F. Deutsch, The Method of Alternating Orthogonal Projections, in *Approximation Theory, Spline Functions and Applications*, Volume 356 of the series NATO ASI Series (1992) 105-121.
- [372] F. Deutsch, Accelerating the convergence of the method of alternating projections via a line search: A brief survey, In: *Inherently Parallel Algorithms in Feasibility and Optimization and their Application*, D. Butnariu, Y. Censor, S. Reich (Eds.) Studies in Computational Mathematics, 8 (Elsevier Science Publishers, Amsterdam) (2001) 203-217.
- [373] K. Deweese, *Bridging the Theory-Practice Gap of Laplacian Linear Solvers*, Ph.D. Thesis, University of California, Santa Barbara, CA, USA, 2018.
- [374] B. Delyon, R. Izmailov and A. Juditsky, On the projection algorithm and delay of peaking in adaptive control, *IEEE Transactions on Automatic Control*, 38 (1993) 581-584.
- [375] B. Delyon and A. Juditsky, Stable adaptive control for a plant with randomly varying parameters, *Dynamics and Control*, 2 (1992) 385-399.
- [376] M.C.A. van Dijke, H.A. van der Vorst and M.A. Viergever, On the relation between ART, block-ART and SIRT, In: A.E. Todd-Pokropek, M.A. Viergever (Eds.), *Medical Images: Formation, Handling and Evaluation*, Volume 98 of the series NATO ASI Series, 1992, pp. 377-396.
- [377] F. Dikmen, A. Alkumru and O. Yildirim, An ART algorithm for imaging of buried cylindrical bodies illuminated by Gaussian beams, International Conference on Mathematical Methods in Electromagnetic Theory, Kiev, Ukraine, 10-13 Sept. 2002, 293-295 (vol. 1).
- [378] M. Ding, K. Ji, D. Wang and J. Xu, Understanding forgetting in continual learning with linear regression: Overparameterized and underparameterized regimes, arXiv:2405.17583v1 (2024).
- [379] N. Ding, S.B. Zhang, S.Q. Wu, X.M. Wang and K.F. Zhang, Adaptive node parameterization for dynamic determination of boundaries and nodes of GNSS tomographic models, *Journal of Geophysical Research: Atmospheres*, 123. doi.org/10.1002/2017JD027748.
- [380] N. Ding, S. Zhang and Q. Zhang, New parameterized model for GPS water vapor tomography, *Ann. Geophys.*, 35 (2017) 311-323.
- [381] S. Dittmer, T. Kluth, M. Thorstein, R. Henriksen and P. Maass, Deep image prior for 3D magnetic particle imaging: A quantitative comparison of regularization techniques on Open MPI dataset, arXiv:2007.01593v1 (2020).
- [382] G.A. Dmitriev and A.N. Astafev, Decision support system to determine a nosological entity of hepatitis (in Russian), *Software & Systems*, 30 (2017) 754-757.
- [383] I. Dokmanić, M. Kolundžija and M. Vetterli, Beyond Moore-Penrose: Sparse pseudoinverse, 2013 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 26-31 May 2013, Vancouver, BC, pp. 6526-6530.
- [384] J. Doll, M. Henze, O. Bublitz, A. Werling, L.E. Adam, U. Haberkorn, W. Semmler and G. Brix, High resolution reconstruction of PET images using the iterative OSEM algorithm (in German), *Nuklearmedizin*, 43 (2004) 72-78.
- [385] C. Dong, Y. Jin, M. Ferrara and K. Priddy, A study of multi-static ultrasonic tomography using propagation and back-propagation method, in: *Algorithms for Synthetic Aperture Radar Imagery XVIII*, 805106, May 2011.
- [386] L. Dorbath, S.S. Arefiev and B.A. Borisov, Deep seismic structure of the Spitak zone, (in Russian), *Fizika Zemli*, 7-8 (1994) 42-52. English translation in *Physics of the Solid Earth*, 30 (1995) 624- 634.
- [387] K. Du and H. Gao, A new theoretical estimate for the convergence rate of the maximal weighted residual Kaczmarz algorithm, *Numer. Math. Theor. Meth. Appl.*, 12 (2019) 627-639.
- [388] K. Du, W. Si and X. Sun, Pseudoinverse-free randomized extended block Kaczmarz for solving least squares, arXiv:2001.04179v1, 2020.
- [389] Y.S. Du, K. Hayami, N. Zheng, K. Morikuni and J.F. Yin, Kaczmarz-type inner-iteration preconditioned flexible GMRES methods for consistent linear systems, arXiv:2006.10818v2 (2020).
- [390] K. Du, W.-T. Si and X.-H. Sun, Randomized extended average block Kaczmarz for solving least squares, *SIAM Journal on Scientific Computing*, 42 (2020), A3541-A3559.

- [391] K. Du and X.-H. Sun, Pseudoinverse-free randomized block iterative methods for consistent and inconsistent linear systems, arXiv:2011.10353v1 (2020).
- [392] K. Du and X.-H. Sun, Randomized regularized extended Kaczmarz algorithms for tensor recovery, arXiv:2112.08566v1 (2021).
- [393] L.-X. Duan and G.-F. Zhang, Variant of greedy randomized Gauss-Seidel method for ridge regression, *Numer. Math. Theor. Meth. Appl.* 14 (2021), 714-737.
- [394] Q. Duan, L. Zhang, H. Zhang and H. Wang, Phase retrieval via randomized block Kaczmarz by averaging with heavy ball momentum, *Advances in Engineering Technology Research*, 6 (2023), 394-400.
- [395] R. Duda, Die Lemberger Mathematikerschule, *Jahresbericht der Deutschen Mathematiker-Vereinigung*, 112 (2010) 3-24.
- [396] N. Durgin, R. Grotheer, C. Huang, S. Li, A. Ma, D. Needell and J. Qin, Sparse randomized Kaczmarz for support recovery of jointly sparse corrupted multiple measurement vectors, In: Gasparovic E., Domeniconi C. (eds) Research in Data Science. Association for Women in Mathematics Series, vol 17. Springer, Cham, 2019.
- [397] A. Dutta, F. Hanzely and P. Richtárik, A nonconvex projection method for robust PCA, Proceedings of the AAAI Conference on Artificial Intelligence (2019) DOI: <https://doi.org/10.1609/aaai.v33i01.33011468>.
- [398] R. Duwe and P. Jansen, Computer tomography of barrels with radioactive contents, *Nuclear Engineering and Design*, 130 (1991) 89-102.
- [399] A. Eamaz, F. Yeganegi, D. Needell and M. Soltanian, Harnessing the power of sample abundance: Theoretical guarantees and algorithms for accelerated one-bit sensing, arXiv:2308.00695v3 (2023).
- [400] M. Ebert, *Non-ideal Projection Data in X-ray Computed Tomography*, Ph.D. Thesis, University Mannheim, Germany, 2001.
- [401] J. Eckstein and B.F. Svaiter, Projective splitting methods for pairs of monotone operators, *Informes de matemática: Série A*, 238 (2003), Inst. de Matemática Pura e Aplicada Rio de Janeiro, (26pp).
- [402] J. Eckstein and B.F. Svaiter, A family of projective splitting methods for the sum of two maximal monotone operators, *Mathematical Programming, Ser. B*, 111 (2008) 173-199.
- [403] J. Eckstein and B.F. Svaiter, General projective splitting methods for sums of maximal monotone operators, *SIAM J. Control Optim.*, 48 (2009) 787-811.
- [404] P. Edholm, Image construction in transversal computer tomography, *Acta Radiol.*, 16 (1975) 21-38.
- [405] P.P.B. Eggermont and G.T. Herman, A. Lent, Iterative algorithms for large partitioned linear systems, with applications to image reconstruction, *Linear Algebra Appl.*, 40 (1981) 37-67.
- [406] M.J. Ehrhardt, P. Markiewicz, A. Chambolle, P. Richtárik, J. Schott and C.-B. Schönlieb, Faster PET reconstruction with a stochastic primal-dual hybrid gradient method, *Proceedings of SPIE*, doi:10.1117/12.2272946 (2017).
- [407] J.M. Elble, *Computational Experience with Linear Optimization and Related Problems*, Ph.D. Thesis, University of Illinois, Urbana, IL, USA, 2010.
- [408] J.M. Elble, N.V. Sahinidis and P. Vouzis, GPU computing with Kaczmarz's and other iterative algorithms for linear systems, *Parallel Comput.*, 36 (2010) 215-231.
- [409] Y.C. Eldar and D. Needell, Acceleration of randomized Kaczmarz method via the Johnson-Lindenstrauss Lemma, *Numerical Algorithms*, 58 (2011) 163-177.
- [410] T. Elfving, Block-iterative methods for consistent and inconsistent linear equations, *Numerische Mathematik*, 35 (1980) 1-12.
- [411] T. Elfving, A projection method for semidefinite linear systems and its applications, *Linear Algebra Appl.*, 391 (2004) 57-73.
- [412] T. Elfving, Noise propagation in linear stationary iterations, *Numerical Algorithms* (2024), available on line <https://doi.org/10.1007/s11075-024-01890-0>
- [413] T. Elfving, P.C. Hansen and T. Nikazad, Semi-convergence properties of Kaczmarz's method, *Inverse Problems*, 30 (2014) 055007 (16pp).
- [414] T. Elfving and T. Nikazad, Some properties of ART-type reconstruction algorithms, in *Mathematical Methods in Biomedical Imaging and Intensity-Modulated Radiation Therapy (IMRT)*, Y. Censor et. al. (Eds.), Edizioni della Normale, Pisa, Italy, 2008.

- [415] L. Elsner, I. Koltracht and P. Lancaster, Convergence properties of ART and SOR algorithms, *Numerische Mathematik*, 59 (1991) 91-106.
- [416] L. Elsner, I. Koltracht and M. Neumann, On the convergence of asynchronous paracontractions with application to tomographic reconstruction from incomplete data, *Linear Algebra Appl.*, 130 (1990) 65-82.
- [417] M. Erbe, *Field Free Line Magnetic Particle Imaging*, Springer Vieweg, 2014.
- [418] D.-D. Erdmann-Pham, A. Gibali, K.-H. Küfer and P. Süß, Singular value homogenization: a simple preconditioning technique for linearly constrained optimization and its potential applications in medical therapy, *Journal of Mathematics in Industry*, 6:1 (2016) (11 pp). DOI 10.1186/s13362-016-0017-5.
- [419] K. Erlandsson, *Positron Emission Tomography with Three-dimensional Reconstruction*, Ph.D. Thesis, Lund University, Sweden, 1996.
- [420] R. Escalante and M. Raydan, *Alternating Projection Methods*, SIAM, Philadelphia, 2011.
- [421] M. Eshagh, Sequential Tikhonov regularization: an alternative way for inverting satellite gradiometric data, *Zfv*, 136 (2011) 113-121.
- [422] M. Eslitzbichler, C. Pechstein and R. Ramlau, An H^1 -Kaczmarz reconstructor for atmospheric tomography, *Journal of Inverse and Ill-posed Problems*, 21 (2013) 431-450.
- [423] L.B. Estácio, *Sobre a Escolha da Relaxação e Ordenação das Projeções no Método de Kaczmarz com ênfase em Implementações Altamente Paralelas e Aplicações em Reconstrução Tomográfica*, Ph.D. Thesis, Universidade de São Paulo, Brazil, 2014.
- [424] I. Evron, E. Moroshko, R. Ward, N. Srebro and D. Soudry, How catastrophic can catastrophic forgetting be in linear regression?, arXiv:2205.09588v2 (2022).
- [425] M. Exner, P. Szwargulski, P. Ludewig, T. Knopp and M. Graeser, 3D printed anatomical model of a rat for medical imaging, *Current Directions in Biomedical Engineering*, 5 (2019) 187-190.
- [426] H. Fang, *First-Order Methods for Structured Optimization*, Ph.D. Thesis, University of British Columbia, Vancouver, Canada (2021).
- [427] A. Fannjiang, T. Strohmer, The Numerics of Phase Retrieval, arXiv:2004.05788v1, 2020.
- [428] B. Farsaii, ART with optimal 2D sampling function, Proc. SPIE 1905, Biomedical Image Processing and Biomedical Visualization, 1009 (1993).
- [429] G.E. Fasshauer, Solving differential equations with radial basis functions: multilevel methods and smoothing, *Advances in Computational Mathematics*, 11 (1999) 139-159.
- [430] G.E. Fasshauer, Meshfree methods, in: M. Rieth, W. Schemmers (Eds.), *Handbook of Theoretical and Computational Nanotechnology*, American Scientific Publishers, 2006, pp. 33-97.
- [431] G.E. Fasshauer, *Meshfree Approximation Methods with MATLAB*, World Scientific Publishing Co., Singapore, 2007.
- [432] G.E. Fasshauer, E.C. Gartland Jr and J.W. Jerome, Algorithms defined by Nash iteration: some implementations via multilevel collocation and smoothing, *Journal of Computational and Applied Mathematics*, 119 (2000) 161-183.
- [433] H.G. Feichtinger and K. Grochenig, Theory and practice of irregular sampling, in: J.J. Benedetto, M. Frazier (Eds.) *Wavelets: Mathematics and Applications*, CRC Press, Boca Raton, FL, 1994, pp. 305-363.
- [434] L. Felsner, T. Würfl, C. Syben, P. Roser, A. Preuhs, A. Maier and Ch. Riess, Reconstruction of voxels with position-and angle-dependent weightings, arXiv:2010.14205v1 (2020).
- [435] J.J. Fernández, A.F. Lawrence, J. Roca, I. García, M.H. Ellisman and J.M. Carazo, High-performance electron tomography of complex biological specimens, *Journal of Structural Biology*, 138 (2002) 6-20.
- [436] J.-J. Fernández, D. Gordon and R. Gordon, Efficient parallel implementation of iterative reconstruction algorithms for electron tomography, *J. Parallel Distrib. Comput.*, 68 (2008) 626– 640.
- [437] F. Ferrari and O. Sigmund, Towards solving large scale topology optimization problems with buckling constraints at the cost of linear analyses, *Comput. Methods Appl. Mech. Engrg.* 363 (2020) 112911.
- [438] I. Ferreira, J.A. Acebrón and J. Monteiro, Parallelization strategies for the randomized Kaczmarz algorithm on large-scale dense systems, arXiv:2401.17474v1 (2024).
- [439] I.A. Ferreira, J.A. Acebrón, J. Monteiro, Survey of a class of iterative row-action methods: The Kaczmarz method, arXiv:2401.02842v2 (2024).

- [440] M. Figl, CT reconstruction, in: W. Birkfellner, *Applied Medical Image Processing: A Basic Course*, CRC Press, Boca Raton, 2011, pp. 339-369.
- [441] J. Fink, *Fixed Point Algorithms and Superiorization in Communication Systems*, Ph. D.Thesis, Technische Universität Berlin, Germany (2022).
- [442] G.J. Fix and M.E. Rose, A Comparative Study of Finite Element and Finite Difference Methods for Cauchy-Riemann Type Equations, *SIAM J. Numer. Anal.*, 22 (1985) 250–261.
- [443] S.D. Flåm, Successive averages of firmly nonexpansive mappings, *Mathematics of Operations Research*, 20 (1995) 497-512.
- [444] S.D. Flåm and J. Zowe, Relaxed outer projections, weighted averages and convex feasibility, *BIT*, 30 (1990) 289-300.
- [445] J. Floyd, P. Geipel and A.M. Kempf, Computed Tomography of Chemiluminescence (CTC): Instantaneous 3D measurements and phantom studies of a turbulent opposed jet flame, *Combustion and Flame*, 158 (2011) 376–391.
- [446] G.E. Forsythe, Solving linear equations can be interesting, *Bul. Amer. Math. Soc.*, 59 (1953) 299-329.
- [447] G.E. Forsythe, Tentative classification of methods and bibliography on solving systems of linear equations, in: L.J. Paige, O. Taussky (Eds.), *Simultaneous Linear Equations and the Determination of Eigenvalues*, National Bureau of Standards: Applied Mathematics Series, 29, 1953, pp. 1-28. <https://archive.org/details/simultaneousline00paig>
- [448] G.E. Forsythe, Difference methods on a digital computer for laplacian boundary value and eigenvalue problems, *Communications on Pure and Applied Mathematics*, 9 (1956) 425–434.
- [449] J. Frank, *Three-Dimensional Electron Microscopy of Macromolecular Assemblies: Visualization of Biological Molecules in Their Native State*, Oxford University Press, New York, 2006.
- [450] M.S. Frank and C.A. Balanis, A conjugate direction method for geophysical inversion problems, *IEEE Transactions on Geoscience and Remote Sensing*, 25 (1987) 691-701.
- [451] J. Franke, N. Baxan, H. Lehr, U. Heinen, S. Reinartz, J. Schnorr, M. Heidenreich, F. Kiessling and V. Schulz, Hybrid MPI-MRI system for dual-modal in situ cardiovascular assessments of real-time 3D blood flow quantification – A pre-clinical in vivo feasibility investigation, *IEEE Transactions on Medical Imaging*, 39 (2020) 4335–4345.
- [452] J. Franke, U. Heinen, H. Lehr, A. Weber, F. Jaspard, W. Ruhm, M. Heidenreich and V. Schulz, System characterization of a highly integrated preclinical hybrid MPI-MRI scanner, *IEEE Transactions on Medical Imaging*, 35 (2016) 1993-2004.
- [453] N.M. Freris and A. Zouzias, Fast distributed smoothing of relative measurements, 2012 IEEE 51st Annual Conference on Decision and Control, Maui, HI, USA, Dec. 10-13, 2012, pp. 1411-1416.
- [454] T. Fromenteze, X. Liu, M. Boyarsky, J. Gollub and D.R. Smith, Phaseless computational imaging with a radiating metasurface, *Optics Express*, 24, (2016) 16760–16776.
- [455] X.W. Fu, E. Knudsen, H.F. Poulsen, G.T. Herman, B.M. Carvalho and H.Y. Liao, Optimized algebraic reconstruction technique for generation of grain maps based on three-dimensional X-ray diffraction (3DXRD), *Optical Engineering*, 45 (2006) 116501 (9pp).
- [456] J. Fu, X. Hu, A. Velroyen, M. Bech, M. Jiang and F. Pfeiffer, 3D Algebraic Iterative Reconstruction for Cone-Beam X-Ray Differential Phase-Contrast Computed Tomography, *PLoS ONE*. 10 (2015) e0117502 (13 pp.).
- [457] X. Fu, E. Knudsen, H.F. Poulsen, G.T. Herman, B.M. Carvalho and H.Y. Liao, Optimization of an algebraic reconstruction technique for generation of grain maps based on diffraction data, *Proc. SPIE 5535, Developments in X-Ray Tomography IV*, 261 (2004). doi:10.1117/12.559602
- [458] A. Galántai, *Projectors and Projection Methods*, Kluwer Academic Publishers, Boston, 2004.
- [459] A. Galantai, On the rate of convergence of the alternating projection method in finite dimensional spaces, *Journal of Mathematical Analysis and Applications*, 310 (2005) 30-44.
- [460] M. Galgon, L. Krämer, J. Thies, A. Basermann and B. Lang, On the parallel iterative solution of linear systems arising in the FEAST algorithm for computing inner eigenvalues, *Parallel Computing*, 49 (2015) 153-163.
- [461] G. Galiana, D. Peters, L. Tam and R.T. Constable, Multi-echo acquisition of O-space data, *Magn. Reson. Med.*, 72 (2014) 1648-1657.
- [462] R.R. Galigekere, *New Algorithms for Image Analysis, Compression, and 2-D Spectrum Estimation in the Radon Space*, Ph.D. Thesis, Concordia University, Montreal, Quebec, Canada, 1997.
- [463] E. Gallopoulos, Algorithms and applications research at CSRD, Technical Report, University of Illinois, 1994.
- [464] W.S. Gan, Application of chaos theory to acoustical imaging. In: *Nonlinear Acoustical Imaging*, (2021) Springer, Singapore, pp. 61–82. https://doi.org/10.1007/978-981-16-7015-2_8.

- [465] M. Gao, X. Zhang and G. Han, The exponential convergence rate of Kaczmarz's algorithm and an acceleration strategy for ART, *Applied Mathematics and Computation*, 420 (2022), 126885.
- [466] Y. Gao and C. Chen, Convergence Analysis of nonlinear Kaczmarz method for systems of nonlinear equations with component-wise convex mapping, arXiv:2309.15003v1 (2023).
- [467] U. Garcia-Palomares, Parallel projected aggregation methods for solving the convex feasibility problem, *SIAM J. Optimization*, 3 (1993) 882-900.
- [468] N. Gastinel, *Linear Numerical Analysis*, Academic Press, New York, 1970
- [469] E. Garduño and G.T. Herman, Implicit surface visualization of reconstructed biological molecules, *Theoretical Computer Science*, 346 (2005) 281-299.
- [470] T.B. Gatski, C.E. Grosch and M.E. Rose, The numerical solution of the Navier-Stokes equations for 3-dimensional, unsteady, incompressible flows by compact schemes, *Journal of Computational Physics*, 82 (1989) 298-329.
- [471] G. Gaullier, *Modèles déformables contraints en reconstruction d'images de tomographie non linéaire par temps d'arrivée*, Ph.D. Thesis, Université de Strasbourg, France, 2013.
- [472] S. Gaure, OLS with multiple high dimensional category variables, *Computational Statistics & Data Analysis*, 66 (2013) 8-18.
- [473] N. Gazagnadou, M. Ibrahim, and R.M. Gower, Ridge sketch: A fast sketching based solver for large scale ridge regression, arXiv:2105.05565v2 (2021).
- [474] W.B. Gearhart and M. Koshy, Acceleration schemes for the method of alternating projections, *Journal of Computational and Applied Mathematics*, 26 (1989) 235-249.
- [475] M. Gehre and B. Jin, Expectation propagation for nonlinear inverse problems – with an application to electrical impedance tomography, *Journal of Computational Physics*, 259 (2014) 513-535.
- [476] J. Geneson and E. Zhou, Online learning of smooth functions, *Theoretical Computer Science*, 979 (2023), 114203.
- [477] F. Geng, L.-X. Duan and G.-F. Zhang, Greedy Kaczmarz algorithm using optimal intermediate projection technique for coherent linear systems, *Numer. Math. Theor. Meth. Appl.*, 15 (2022), 464-483.
- [478] E. George, Y. Yaniv and D. Needell, Multi-randomized Kaczmarz for latent class regression, 2022 56th Asilomar Conference on Signals, Systems, and Computers, Pacific Grove, CA, USA, 2022, pp. 1367-1371, doi:10.1109/IEEECONF56349.2022.10051904, arXiv:2212.03962v1 (2022).
- [479] G.M. Georgiu, Single-layer networks, in: *Handbook of Neural Computation*, IOP Publishing and Oxford University Press, 1997.
- [480] A. Germaineau, P. Dounalin, J.C. Dupre, B. Tremblais, L. Thomas, V. Grulier, P. Braud and L. David, Mesure de grandeurs cinématiques tridimensionnelles par tomographie optique à balayage et tomographie par reconstruction algébrique, 19ème Congrès Français de Mécanique, Marseille, France, 24-28 août 2009 (6 pp).
- [481] A. Gibali and D. Teller, A real-time iterative projection scheme for solving the common fixed point problem and its applications (in Russian), *Contemporary Problems in Mathematics and Physics*, 64 (2018) 616-636.
- [482] O. Ginat, The method of alternating projections, arXiv:1809.05858v1 (2018).
- [483] S.J. Ginhör, J. Schlagitweit, M. Bechmann and N. Müller, Nuclear spin noise tomography in three dimensions with iterative simultaneous algebraic reconstruction technique (SART) processing, *Magn. Reson.*, 1 (2020), 165–173.
- [484] A. von Gladiss, M. Graeser, P. Szwargulski, T. Knopp and T.M. Buzug, Hybrid system calibration for multidimensional magnetic particle imaging, *Phys. Med. Biol.*, 62 (2017) 3392–3406.
- [485] L.C. Godara, Application of antenna arrays to mobile communications . Part II: Beam-forming and direction-of-arrival considerations, *Proceedings of the IEEE*, 85 (1997) 1195-1245.
- [486] J.L. Goffin, Variable metric subgradient methods, in: O.L. Mangasarian, R.R. Meyer, S.M. Robinson (Eds.), *Nonlinear Programming 4: Proceedings of the Nonlinear Programming Symposium 4*, July 14-16 1980, Academic Press, New York, 1981, pp. 283-326.
- [487] G. Goldshlager, N. Abrahamsen and L. Lin, A Kaczmarz-inspired approach to accelerate the optimization of neural network wavefunctions, arXiv:2401.10190v1 (2024).
- [488] M. Gołębek and T. Rymarczyk, Design of innovative measurement systems in ultrasonic tomography, *Informatyka, Automatyka, Pomiary w Gospodarce i Ochronie Środowiska*, 2 (2022), 38-42, <http://doi.org/10.35784/iapgos.2914>.

- [489] H.V. Gómez, *Studies of Dimensional Metrology with X-ray CAT Scan*, Ph.D. Thesis University of North Carolina at Charlotte, NC, USA, 2018.
- [490] A. Gonen, F. Orabona and S. Shalev-Shwartz, Solving ridge regression using sketched preconditioned SVRG, Proceedings of the 33 rd International Conference on Machine Learning, New York, NY, USA, 2016.
- [491] J.M. González, J. Borreguero, E. Pallás, J.P. Rigla, J.M. Algarín, R. Bosch, F. Galve, D. Grau-Ruiz, R. Pellicer, A. Ríos, J.M. Benlloch, and J. Alonso, Prepolarized MRI of hard tissues and solid-state matter, arXiv:2110.03417v2 (2021).
- [492] D. Gordon, Parallel ART for image reconstruction in CT using processor arrays, *International Journal of Parallel, Emergent and Distributed Systems*, 21 (2006) 365-380.
- [493] D. Gordon, A derandomization approach to recovering bandlimited signals across a wide range of random sampling rates, *Numerical Algorithms*, 77 (2018), 1141–1157.
- [494] D. Gordon, The Cimmino-Kaczmarz equivalence and related results, *Applied Analysis and Optimization*, 2 (2018), 253-270.
- [495] D. Gordon, Conjugate gradients acceleration of coordinate descent for linear systems, *Journal of Scientific Computing* (2023) 96:86.
- [496] D. Gordon and R. Gordon, Component-averaged row projections: A robust, block-parallel scheme for sparse linear systems, *SIAM J. Sci. Comput.*, 27 (2005) 1092-1117.
- [497] D. Gordon and R. Gordon, CGMN revisited: robust and efficient solution of stiff linear systems derived from elliptic partial differential equations, *ACM Transactions on Mathematical Software*, 35 (2008) Article No. 18.
- [498] D. Gordon and R. Gordon, Geometric scaling: A simple and effective preconditioner for linear systems with discontinuous coefficients, arXiv:0812.2769v1 (2008).
- [499] D. Gordon and R. Gordon, CARP-CG: A robust and efficient parallel solver for linear systems, applied to strongly convection dominated PDEs, *Parallel Computing*, 36 (2010) 495–515.
- [500] D. Gordon and R. Gordon, Row scaling as a preconditioner for some nonsymmetric linear systems with discontinuous coefficients, *Journal of Computational and Applied Mathematics*, 234 (2010) 3480-3495.
- [501] D. Gordon and R. Gordon, An overview of the CARP-CG algorithm, Parallel Numerics 11, Leibnitz, Austria, October 5-7, 2011, pp. 38-47.
- [502] D. Gordon and R. Gordon, Parallel solution of high frequency Helmholtz equations using high order finite difference schemes, *Applied Mathematics and Computation*, 218 (2012) 10737-10754.
- [503] D. Gordon and R. Gordon, Robust and highly scalable parallel solution of the Helmholtz equation with large wave numbers, *Journal of Computational and Applied Mathematics*, 237 (2013) 182-196.
- [504] D. Gordon and R. Gordon, CADD: A seamless solution to the domain decomposition problem of subdomain boundaries and cross-points, *Wave Motion* 98 (2020) 102649, 11 pages.
- [505] D. Gordon and R. Mansour, A geometric approach to quadratic optimization: an improved method for solving strongly underdetermined systems in CT, *Inverse Problems in Science and Engineering*, 15 (2007) 811-826.
- [506] D. Gordon, R. Gordon and E. Turkel, Compact high order schemes with gradient-direction derivatives for absorbing boundary conditions, *Journal of Computational Physics*, 297 (2015) 295-315.
- [507] R. Gordon, Stop breast cancer now! Imagining imaging pathways towards search, destroy, cure and watchful waiting of premetastasis breast cancer. In: T. Tot (Ed.), *Breast Cancer - A Lobar Disease*, Springer, London (2011), pp. 167-203.
- [508] R. Gordon, E. Turkel and D. Gordon, A compact three-dimensional fourth-order scheme for elasticity using the first-order formulation, *Int. J. Numer. Methods. Eng.*, (2021), 1–20.
- [509] A.V. Gorshkov, Method of improving the resolution in the processing of spectral measurement data, *Journal of Applied Spectroscopy*, 57 (1992) 902-906.
- [510] N.I.M. Gould, How good are projection methods for convex feasibility problems?, *Computational Optimization and Applications*, 40 (2008) 1-12.
- [511] R.M. Gower, *Sketch and Project: Randomized Iterative Methods for Linear Systems and Inverting Matrices*, Ph.D. Thesis, The University of Edinburgh, UK, 2016.
- [512] R. Gower, D.A. Lorenz and M. Winkler, A Bregman-Kaczmarz method for nonlinear systems of equations, *Computational Optimization and Applications*, (2023). <https://doi.org/10.1007/s10589-023-00541-9>.
- [513] M. Gower, D. Molitor, J. Moorman, and D. Needell, On adaptive sketch-and-project for solving linear systems, *SIAM Journal on Matrix Analysis and Applications*, 2021, Vol. 42, No. 2 : pp. 954-989.

- [514] R.M. Gower, F. Hanzely, P. Richtárik and S. Stich, Accelerated stochastic matrix inversion: General theory and speeding up BFGS rules for faster second-order optimization, arXiv:1802.04079v1 (2018).
- [515] R. Gower, D.A. Lorenz and M. Winkler, A Bregman–Kaczmarz method for nonlinear systems of equations, *Computational Optimization and Applications*, 87(2024), 1059–1098.
- [516] R.M. Gower and P. Richtárik, Randomized iterative methods for linear systems, *SIAM Journal on Matrix Analysis and Applications*, 36 (2015) 1660-1690.
- [517] K. Gräfe, G. Bringout, M. Graeser, T.F. Sattel and T.M. Buzug, System matrix recording and phantom measurements with a single-sided magnetic particle imaging device, *IEEE Transactions on Magnetics*, 51 (2015) 6502303 (3 pp.).
- [518] M. Graeser, T. Knopp, P. Szwargulski, T. Friedrich, A. von Gladiss, M. Kaul, K. Krishnan, H. Ittrich, G. Adam and T.M. Buzug, Towards picogram detection of superparamagnetic iron-oxide particles using a gradiometric receive coil, *Scientific Reports*, 7 (2017), Article number: 6872.
- [519] M.Granet and J.Trampert, Large-scale P-velocity structures in the euro-mediterranean area, *Geophys. J. Int.*, 99 (1989) 583-594.
- [520] S.J. Grauer, K. Mohr, T. Yu, H. Liu and W. Cai, Volumetric emission tomography for combustion processes, *Progress in Energy and Combustion Science*, 94 (2023), 101024.
- [521] S. Gravel and V. Elser, Divide and concur: A general approach to constraint satisfaction, *Phys. Rev. E*, 78 (2008) 036706.
- [522] C.R. Greulich, *Radiography of Dry Cask Storage for Used Nuclear Fuel*, Ph.D. Thesis, University of Florida, USA, 2018.
- [523] M. Griebel, W. Merz and T. Neunhoffer, Mathematical modeling and numerical simulation of freezing processes of a supercooled melt under consideration of density changes, *Computing and Visualization in Science*, 1 (1999) 201-219.
- [524] C.E. Grosch, Adapting a Navier-Stokes code to the ICL-DAP, *SIAM J. Sci. and Stat. Comput.*, 8 (1987) 96-117.
- [525] J. Groß, A note on the randomized Kaczmarz method with a partially weighted selection step, arXiv:2105.14583v1 (2021).
- [526] F. Grüll , M. Kunz, M. Hausmann and U. Kebschull, An implementation of 3D electron tomography on FPGAs, 2012 International Conference on Reconfigurable Computing and FPGAs, Cancun, 5-7 Dec. 2012.
- [527] F.A. Grünbaum, A study of Fourier space methods for “limited angle” image reconstruction, *Numerical Functional Analysis and Optimization*, 2 (1980) 31-42.
- [528] Y.J. Guan, W.G. Li, L.L. Xing and T.T. Qiao, A note on convergence rate of randomized Kaczmarz method, *Calcolo* (2020) 57:26, 11 pages.
- [529] N. Gubareni, Algebraic algorithms for image tomographic reconstruction from incomplete projection data, In: S. Soomro (Ed.), *Engineering the Computer Science and IT*, InTech, 2009, pp. 231-260.
- [530] V.J.C. Bezerra Guedes, *Métodos sísmicos ativos e passivos aplicados para caracterização da barragem do Paranoá em Brasília-DF*, Ph.D. Thesis, Universidade de Brasília, Brasil (2022).
- [531] M. De V. El Guendy, R. Mouthaan, B. Wetherfield, A. Kadis, P.J. Christopher, A. Kaczorowski and T.D. Wilkinson, Kaczmarz holography: holographic projection in the Fraunhofer region, *Optical Engineering*, 60(10), 103101 (2021). <https://doi.org/10.1117/1.OE.60.10.103101>
- [532] M. de V. El Guendy, R. Mouthaan, A. Kadis, Y. Wang, O. Niculescu, A. Soliman, D. Milne, A. Kaczorowski, and T.D. Wilkinson, Cimmino simultaneously iterative holographic projection, *Optics Continuum*, 1 (2022), 1351-1363.
- [533] A. Guha and I. Schoegl, Simulation of 2D tomographic TDLAS using algebraic reconstruction and Tikhonov regularization, 8th US National Combustion Meeting, University of Utah, May 19-22, 2013.
- [534] M. Guida and C. Sbordone, The reflection method for the numerical solution of linear systems, *SIAM Review*, 65 (2023) 1137–1151.
- [535] R. Guney, E.F. Benson and A.K.M. Sarwar, Imaging of the earth by iterative reconstruction methods, In: A. Vogel et al. (Eds.), *Theory and Practice of Geophysical Data Inversion*, 191, Springer Fachmedien, Wiesbaden, 1992, pp. 191-210.
- [536] A. Güngör, B. Askin, D.A. Soydan, E.U. Saritas, C.B. Top and T. Çukur, TranSMS: Transformers for super-resolution calibration in magnetic particle imaging, arXiv:2111.02163v1 (2021).
- [537] C.S. Güntürk and N.T. Thao, Unrestricted (random) products of projections in Hilbert space: Regularity, absolute convergence of trajectories, and statistics of displacements, *Pure and Applied Functional Analysis*, (2022) (to appear).
- [538] X. Guo, J. Lin and D.-X. Zhou, Rates of convergence of randomized Kaczmarz algorithms in Hilbert spaces, *Appl. Comput. Harmon. Anal.*, 61 (2022) 288–318.

- [539] T. Häber, R. Suntz and H. Bockhorn, Two-dimensional tomographic simultaneous multispecies visualization—Part II: Reconstruction accuracy, *Energies* 2020, 13, 2368; doi:10.3390/en13092368.
- [540] W. Hackbusch, *Iterative Lösung großer schwachbesetzter Gleichungssysteme*, Teubner Studienbücher, 1991, English translation: *Iterative Solution of Large Sparse Systems of Equations*, Springer-Verlag, New York, 1994.
- [541] W. Hackbusch, *Multi-Grid Methods and Applications*, Springer, Berlin 1985.
- [542] J. Haddock, *Projection Algorithms for Convex and Combinatorial Optimization*, Ph.D. Thesis, University of California, Davis, USA, 2018.
- [543] J. Haddock, B. Jarman and C. Yap, Paving the way for consensus: Convergence of block gossip algorithms, arXiv:2110.14609v1 (2021)
- [544] J. Haddock and A. Ma, Greed works: An improved analysis of sampling Kaczmarz-Motkzin, *SIAM Journal on Mathematics of Data Science*, 3 (2021), 342–368.
- [545] J. Haddock, A. Ma and E. Rebrova, On subsampled quantile randomized Kaczmarz, arXiv:2308.07987v1 (2023).
- [546] J. Haddock and D. Needell, On Motzkin’s method for inconsistent linear systems, *BIT Numerical Mathematics*, 59 (2019), 387–401.
- [547] J. Haddock, D. Needell, E. Rebrova and W. Swartworth, Quantile-based iterative methods for corrupted systems of linear equations, arXiv:2009.08089v1 (2020).
- [548] N.N. Hai, L. D. Muu and B.V. Dinh, An algorithm for quasiconvex equilibrium problems and asymptotically nonexpansive mappings: application to a Walras model with implicit supply–demand, *Mathematical Methods of Operations Research*, 98: (2023), 299–324.
- [549] M.A. Haidekker, *Medical Imaging Technology*, Springer, New York, 2013.
- [550] P. Hájek and V. Olej, Adaptive intuitionistic fuzzy inference systems of Takagi-Sugeno type for regression problems, in: *Artificial Intelligence Applications and Innovations*, IFIP Advances in Information and Communication Technology, 381, 2012, pp. 206-216.
- [551] R. Haller and R. Szwarc, Kaczmarz algorithm in Hilbert space, *Studia Mathematica*, 169 (2005) 123-132.
- [552] M. Haltmeier, Convergence analysis of a block iterative version of the loping Landweber–Kaczmarz iteration, *Nonlinear Analysis: Theory, Methods & Applications*, 71 (2009) e2912-e2919.
- [553] M. Haltmeier and A. Leitão, O. Scherzer, Kaczmarz methods for regularizing nonlinear ill-posed equations I: Convergence analysis, *Inverse Problems and Imaging*, 1 (2007) 289-298.
- [554] C. Hamaker, K.T. Smith, D.C. Solmon and S.L. Wagner, The divergent beam X-ray transform, *Rocky Mt. J. Math.*, 10 (1980) 253-283.
- [555] O. Hamitou, L. Métivier, S. Labbé, R. Brossier and J. Virieux, Preconditioning and multiple-right hand sides strategies for the solution of the frequency-domain wave propagation problem using the CGMN method, SEG Technical Program Expanded Abstracts 2015, pp. 3612-3616.
- [556] D. Han, Y. Su and J. Xie, Randomized Douglas-Rachford method for linear systems: Improved accuracy and efficiency, arXiv:2207.04291v3 (2022).
- [557] D. Han and J. Xie, On pseudoinverse-free randomized methods for linear systems: Unified framework and acceleration, arXiv:2208.05437v3 (2022).
- [558] R. Han, L. Li, P. Yang, F. Zhang and X. Gao, A novel constrained reconstruction model towards high-resolution subtomogram averaging, *Bioinformatics*, btz787 (2019), doi.org/10.1093/bioinformatics/btz787.
- [559] M. Hanke and W. Niethammer, On the acceleration of Kaczmarz’s method for inconsistent linear systems, *Linear Algebra Appl.*, 130 (1990) 83-98.
- [560] P.C. Hansen, *Rank-Deficient and Discrete Ill-Posed Problems: Numerical Aspects of Linear Inversion*, SIAM, Philadelphia, 1998.
- [561] P.C. Hansen, ART Exhibit, Workshop on Mathematics and Algorithms in Tomography, Oberwolfach, Germany, August 10-16, 2014.
- [562] P.C. Hansen and J.S. Jørgensen, AIR Tools II: algebraic iterative reconstruction methods, improved implementation, *Numer. Algorithms*, 79 (2018), 107–137
- [563] P.C. Hansen and M. Saxild-Hansen, AIR Tools — A MATLAB package of algebraic iterative reconstruction methods, *Journal of Computational and Applied Mathematics*, 236 (2012) 2167–2178.

- [564] F. Hanzely, *Optimization for Supervised Machine Learning: Randomized Algorithms for Data and Parameters*, Ph.D. Thesis, King Abdullah University, Thuwal, Saudi Arabia (2020).
- [565] M Harmatz, PG Lauwers, R Ben-Av, A Brandt, E. Katznelson, S. Solomon and K. Wolowesky, Parallel-transported multigrid and its application to the schwinger model, *Nuclear Physics B – Proceedings Supplements*, 20 (1991) 102-109.
- [566] A. Hartl, *Tomographic Reconstruction of 2-D Atmospheric Trace Gas Distributions from Active DOAS Measurements*, University of Heidelberg, Germany, 2007.
- [567] K. Hartling, F. Mahoney, E.T. Rand, T. Sariya and A. Valente, A comparison of algebraic reconstruction techniques for a single-detector muon computed tomography system, *Nuclear Instruments and Methods in Physics Research*, A 987 (2021) 164834.
- [568] J.B. Hawkins and W.J. Kammerer, A class of linear transformations which can be written as the product of projections, *Proceedings of the American Mathematical Society*, 19 (1968) 739-745.
- [569] S. He, Q.L. Dong and X. Li, The randomized Kaczmarz algorithm with the probability distribution depending on the angle, *Numerical Algorithms*, 93 (2023), 415–440.
- [570] S. He, Z. Wang and Q.-L. Dong, Inertial randomized Kaczmarz algorithms for solving coherent linear systems, arXiv:2306.08185v1 (2023)
- [571] H.W. Heaton, *Learning to Optimize with Guarantees*, Ph.D. Thesis, University of California, Los Angeles, USA (2021).
- [572] H. Heaton and Y. Censor, Asynchronous sequential inertial iterations for common fixed points problems with an application to linear systems, *Journal of Global Optimization*, 74, (2019), 95–119.
- [573] H. Heaton, S.W. Fung, A. Gibali and W. Yin, Feasibility-based fixed point networks, arXiv:2104.14090v1 (2021).
- [574] C. Hegde, F. Keinert and E.S. Weber, A Kaczmarz algorithm for solving tree based distributed systems of equations, arXiv:1904.05732, 2019.
- [575] M. Hegland and J. Rieger, Generalized Gearhart-Koshy acceleration is a Krylov space method of a new type, arXiv:2311.18305v1 (2023).
- [576] A. Hefny, D. Needell and A. Ramdas, Rows versus columns: Randomized Kaczmarz or Gauss–Seidel for ridge regression, *SIAM Journal on Scientific Computing*, 39 (2017) S528–S542.
- [577] M. Heinkenschloss, *Numerical Analysis II*, Lecture Notes, Rice University, Houston, 2012.
- [578] M. Heinkenschloss, *Lecture Notes CAAM 454 / 554 – Numerical Analysis II*, Rice University (2018).
- [579] E.S. Helou, Y. Censor, T.-B. Chen, I-L. Chern, A.R. De Pierro, M. Jiang and H. H.-S. Lu, String-averaging expectation-maximization for maximum likelihood estimation in emission tomography, *Inverse Problems*, 30 (2014) 055003 (20pp).
- [580] K. Henneberger and J. Qin, Log-sum regularized Kaczmarz algorithms for high-order tensor recovery, arXiv:2311.00783v1 (2023).
- [581] K. Henneberger and J. Qin, Power of l_1 -norm regularized Kaczmarz algorithms for high-order tensor recovery, arXiv:2405.08275v1 (2024).
- [582] G. Herl, *Multipositional X-ray Tomography for Avoidance and Reduction of Image Artefacts*, Ph.D. Thesis, Universität Erlangen-Nürnberg, Germany (2022).
- [583] G.T. Herman, *Image Reconstruction from Projections: The Fundamentals of Computerized Tomography*, New York, Academic Press, 1980.
- [584] G.T. Herman, Image reconstruction from projections, *Real-Time Imaging*, 1 (1995) 3-18.
- [585] G.T. Herman, *Fundamentals of Computerized Tomography. Image Reconstruction from Projections*, Second Edition, Springer, London, 2009.
- [586] G.T. Herman, H. Hurwitz, A. Lent and H.P. Lung, On the Bayesian approach to image reconstruction, *Information and Control*, 42 (1979) 60-71.
- [587] G.T. Herman, A. Lent and H. Hurwitz, A storage-efficient algorithm for finding the regularized solution of a large, inconsistent system of equations, *IMA Journal of Applied Mathematics*, 25 (1980) 361-366.
- [588] G.T. Herman, A. Lent and S.W. Rowland, ART: Mathematics and applications. A report on the mathematical foundations and on the applicability to real data of the algebraic reconstruction techniques, *J. Theor. Biol.*, 42 (1973) 1-32.
- [589] G. Herman and H. Levkowitz, Initial performance of block-iterative reconstruction algorithms, in: *Mathematics and Computer Science in Medical Imaging*, NATO ASI Series, 39, pp. 305-317.

- [590] G.T. Herman and L.B. Meyer, Algebraic reconstruction techniques can be made computationally efficient, *IEEE Transactions on Medical Imaging*, 12 (1993) 600-609.
- [591] G.T. Herman and H.K. Tuy, Image reconstruction from projections: an approach from mathematical analysis, in: P.C. Sabatier (Ed.), *Basic Methods of Tomography and Inverse Problems*, Adam Hilger, Bristol (1987).
- [592] L.M. Hernández-Ramos, R. Escalante and M. Raydan, Unconstrained optimization techniques for the acceleration of alternating projection, *Numerical Functional Analysis and Optimization*, 32 (2011) 1041-1066.
- [593] J.E. Herr, *Fourier Series for Singular Measures and the Kaczmarz Algorithm*, Ph.D. Thesis, Iowa State University, USA, 2016.
- [594] J.E. Herr and P.E.T. Jorgensen, E.S. Weber, Positive matrices in the Hardy space with prescribed boundary representations via the Kaczmarz algorithm, *Journal d'Analyse Mathématique*, 138, (2019), 209-234.
- [595] J.E. Herr and E.S. Weber, Fourier series for singular measures, *Axioms*, 6 (2017), doi:10.3390/axioms6020007.
- [596] A.J. Hesford and W.C. Chew, Fast inverse scattering solutions using the distorted Born iterative method and the multilevel fast multipole algorithm, *J. Acoust. Soc. Am.*, 128 (2010) 679-690.
- [597] P. Honeine, and H. Lantéri, Constrained reflect-then-combine methods for unmixing hyperspectral data, Proc. IEEE Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing, 2013.
- [598] P. Honeine, H. Lantéri and C. Richard, Constrained Kaczmarz's cyclic projections for unmixing hyperspectral data, 21st European Signal Processing Conference, Marrakech, 9-13 Sept. 2013, pp. 1-5.
- [599] W. Hoppe and D. Typke, Three-dimensional reconstruction of aperiodic objects in electron microscopy, in: W. Hoppe, R. Mason (Eds.), *Advances in Structure Research by Diffraction Methods*, Vieweg & Sohn Braunschweig, 1979, pp. 137-190.
- [600] L. Horesh, *Some Novel Approaches in Modelling and Image Reconstruction for Multi-Frequency Electrical Impedance Tomography of the Human Brain*, Ph.D. Thesis, University College London, United Kingdom, 2006.
- [601] G. Hou and L. Wang, A generalized iterative method and comparison results using projection techniques for solving linear systems, *Applied Mathematics and Computation*, 215 (2009) 806-817.
- [602] A.S. Householder, Some numerical methods for solving systems of linear equations, *The American Mathematical Monthly*, 57 (1950) 453-459.
- [603] A.S. Householder, *The Theory of Matrices in Numerical Analysis*, Blaisdell&Co., New York, 1964, Reprinted by Dover Publishing Inc., New York, 1975.
- [604] Y. Hu, *Matrix Computations and Optimization for Spectral Computed Tomography*, Ph.D. Thesis, Emory University, Georgia, USA, 2019.
- [605] L. Huang, X. Li and D. Needell, Distributed randomized Kaczmarz for the adversarial workers, arXiv:2302.14615v1 (2023).
- [606] M. Huang and Y. Wang, Linear convergence of randomized Kaczmarz method for solving complex-valued phaseless equations, arXiv:2109.11811v1 (2021).
- [607] X. Huang, G. Liu and Q. Niu, Remarks on Kaczmarz algorithm for solving consistent and inconsistent system of linear equations. In: Krzhizhanovskaya V. et al. (eds), *Computational Science – ICCS 2020*. Lecture Notes in Computer Science, vol 12138. Springer, Cham, (2020).
- [608] S. Huber, *Efficient Rational Filter-Based Interior Eigensolvers*, Ph.D. Thesis, Bergische Universität Wuppertal, Germany, 2021.
- [609] L.J. Hubert, P. Arabie and J.J. Meulman, Linear unidimensional scaling in the L_2 -norm: Basic optimization methods using MATLAB, *Journal of Classification*, 19 (2002) 303-328.
- [610] L. Hubert, P. Arabie and J. Meulman, *The Structural Representation of Proximity Matrices with MATLAB*, SIAM, Philadelphia, 2006.
- [611] L. Hubert, J. Meulman and W. Heiser, Two purposes for matrix factorization: A historical appraisal, *SIAM Rev.*, 42 (2000) 68-82.
- [612] T. Humphries, *Temporal Regularization and Artifact Correction in Single Slow-Rotation Spect*, Ph.D. Thesis, Simon Fraser University, Burnaby, BC, Canada, 2011.
- [613] T. Humphries, Technical Note: Convergence analysis of a polyenergetic SART algorithm, *Med. Phys.* 42, 4007 (2015).
- [614] V. Hutterer, R. Ramlau and I. Shatokhina, Real-time adaptive optics with pyramid wavefront sensors: Part II. Accurate wavefront reconstruction using iterative methods, *Inverse Problems*, 35 (2018), 045008.

- [615] A. Ihrig and G. Schmitz, Accelerating nonlinear speed of sound reconstructions using a randomized block Kaczmarz algorithm, 2018 IEEE International Ultrasonics Symposium (IUS), Kobe, Japan, 22-25 Oct. 2018, DOI: 10.1109/ULTSYM.2018.8580199
- [616] A. Ihrig and G. Schmitz, High frequency ultrasonic tomography using optimal transport distance, 2018 IEEE International Ultrasonics Symposium (IUS), Kobe, Japan, 22-25 Oct. 2018, 10.1109/ULTSYM.2018.8579820
- [617] V.P. Il'in, On the Kaczmarz iterative method and its generalizations (in Russian), *Sibirskii Zhurnal Industrial'noi Matematiki*, IX, (2006) 39-49. English translation in: *Journal of Applied and Industrial Mathematics*, 2 (2008) 357-366.
- [618] V.P. Il'in, Projection methods in Krylov subspaces (in Russian), *Zapiski Naučnykh Seminarov POMI*, 472 (2018) 103-119.
- [619] V.P. Il'in, Projection methods in Krylov subspaces, *Journal of Mathematical Sciences*, 240 (2019) 772-782.
- [620] M. Ilyas, A.D. Garnadi, M.T. Julianto and S. Nurdianti, Row action algebraic reconstruction techniques implementation in graphic cards using SCILAB (preprint), doi:10.20944/preprints202006.0053.v1 (2020).
- [621] X. Intes, V. Ntziachristos, A. Yodh and B. Chance, Combining various projection access schemes with the algebraic reconstruction technique for diffuse optical tomography, Proc. SPIE 4536, International Workshop on Photonics and Imaging in Biology and Medicine, 108 (2002). doi:10.1117/12.462533
- [622] A. Iriarte Ruiz, *High Resolution Three-Dimensional Reconstruction for Small Animal PET Cameras*, Ph.D. Thesis, Universidad Autonoma de Madrid, Spain, 2012.
- [623] A. Israel, F. Kraemer and R. Ward, An arithmetic-geometric mean inequality for products of three matrices, *Linear Algebra Appl.*, 488 (2016) 1-12.
- [624] V. Israel-Jost, *Optimisation de la reconstruction en tomographie d'émission monophotonique avec collimateur sténopé*, Ph.D. Thesis, Université Louis Pasteur - Strasbourg, France, 2006.
- [625] A.N. Iusem and A.R. De Pierro, A simultaneous iterative method for computing projections on polyhedra, *SIAM J. Control and Optimization*, 25 (1987) 231-243.
- [626] A.N. Iusem and A.R. De Pierro, On the convergence properties of Hildreth's quadratic programming algorithm, *Mathematical Programming*, 47 (1990) 37-51.
- [627] A.A. Ivanov, Solving the polynomial approximation problem with use of the iterative Kaczmarz method (in Russian), *Vestnik of the Samara State Aerospace University*, 2 (2008) 179-182.
- [628] A.A. Ivanov and A.I. Zhdanov, Kaczmarz algorithm for Tikhonov regularization problem, *Applied Mathematics E-Notes*, 13 (2013) 270-276.
- [629] A.A. Ivanov and A.I. Zhdanov, The block Kaczmarz algorithm based on solving linear systems with arrowhead matrices, *Applied Mathematics E-Notes*, 17 (2017), 142-156.
- [630] A.K. Jain, *Fundamentals of Digital Image Processing*, Prentice Hall, Englewood Cliffs, NJ (1989).
- [631] N. Jain, A. Raj, M.S. Kalra, P. Munshi and V.R. Ravindran, MART algorithms for circular and helical cone-beam tomography, *Research in Nondestructive Evaluation*, 22 (2011) 147-168.
- [632] N. Jamil, *Constraint Solving for User Interface Layout Problems*, Ph.D. Thesis, University of Auckland, New Zealand, 2015.
- [633] N. Jamil, X. Chen and A. Cloninger, Hildreth's algorithm with applications to soft constraints for user interface layout, *Journal of Computational and Applied Mathematics*, 288 (2015) 193-202.
- [634] N. Jamil, F. Mirza, M.A. Naeem and N. Baghaei, Extending an iterative orthogonal projection method towards least-squares solutions, *Journal of Computational and Applied Mathematics* (2018), 341 (2018), 31-41.
- [635] N. Jamil, D. Needell, J.Müller, C. Lutteroth and G. Weber, Kaczmarz algorithm with soft constraints for user interface layout, IEEE 25th International Conference on Tools with Artificial Intelligence, 2013, pp.818-824.
- [636] B.E. Jarman, *Kaczmarz's Method for Systems of Linear Equations: Coherence, Corruption, and Consensus*, Ph.D. Thesis, University of California, Los Angeles, USA (2023).
- [637] B. Jarman, L. Kassab, D. Needell and A. Sietsema, Stochastic iterative methods for online rank aggregation from pairwise comparisons, *BIT Numerical Mathematics* (2024) 64:26.
- [638] B. Jarman, N. Mankovich and J.D. Moorman, Randomized extended Kaczmarz is a limit point of sketch-and-project, arXiv:2110.05605v1 (2021).
- [639] B. Jarman and D. Needell, QuantileRK: Solving large-scale linear systems with corrupted, noisy data, arXiv:2108.02304v1, 2021.

- [640] B. Jarman, Y. Yaniv and D. Needell, Online signal recovery via heavy ball Kaczmarz, arXiv:2211.06391v1 (2022).
- [641] K. Jbilou, Projection-minimization methods for nonsymmetric linear systems, *Linear Algebra Appl.*, 229 (1995) 101-125.
- [642] K. Jeon, S.-H. Kang, C.Y. Ahn and S. Kim, Algebraic correction for metal artifact reduction in computed tomography, *Journal of the Korean Society for Industrial and Applied Mathematics*, 18 (2014) 157-166.
- [643] H. Jeong and D. Needell, Linear convergence of reshuffling Kaczmarz methods with sparse constraints, arXiv:2304.10123v1 (2023).
- [644] J. Jiang and Y. Song, Super converging speed of our nonlinear auto-adapted iterative reconstructing technique, International Conference on Communications and Mobile Computing, Shenzhen, 12-14 April 2010, pp.47-51.
- [645] M. Jiang and G. Wang, Development of iterative algorithms for image reconstruction, *Journal of X-Ray Science and Technology*, 10 (2002) 77-86.
- [646] M. Jiang and G. Wang, Convergence studies on iterative algorithms for image reconstruction, *IEEE Transactions on Medical Imaging*, 22 (2003) 569-579.
- [647] X.-L. Jiang and K. Zhang, A randomized block extended Kaczmarz method with hybrid partitions for solving large inconsistent linear systems, *Applied Mathematics Letters*, 152 (2024) 109027.
- [648] X.-L. Jiang, K. Zhang and J.-F. Yin, Randomized block Kaczmarz methods with k -means clustering for solving large linear systems, *Journal of Computational and Applied Mathematics*, 403 (2021), 113828.
- [649] M. Jianu and S.A. Popescu, A successive projection method for solving linear system of equations, Proceedings of Mathematics and Educational Symposium of Department of Mathematics and Computer Science, The 2nd Edition, Bucharest, May 28, 2016.
- [650] X. Jiao and Q. Chen, Approximate generalized inverses with iterative refinement for ε -accurate preconditioning of singular systems, arXiv:2009.01673v1 (2020).
- [651] Y. Jiao, B. Jin and X. Lu, Preasymptotic convergence of randomized Kaczmarz method, *Inverse Problems*, 33 (2017), 125012.
- [652] Y.-F. Jing and T.-Z. Huang, On a new iterative method for solving linear systems and comparison results, *Journal of Computational and Applied Mathematics*, 220 (2008) 74-84.
- [653] R.P. Johnson, Review of medical radiography and tomography with proton beams, *Reports on Progress in Physics*, doi.org/10.1088/1361-6633/aa8b1d (2017)
- [654] S.A. Johnson and F. Stenger, Ultrasound tomography by Galerkin or moment methods, in: *Selected Topics in Image Science*, Lecture Notes in Medical Informatics, 23, Springer, 1984, pp. 254-276.
- [655] S.A. Johnson and M.L. Tracy, Inverse scattering solutions by a sing basis, multiple source, moment method—Part I: Theory, *Ultrasonic Imaging*, 5 (1983) 361-375.
- [656] P. Jorgensen, M.S. Song and F. Tian, A Kaczmarz algorithm for sequences of projections, infinite products, and applications to frames in IFS L^2 spaces, arXiv:1904.04414v1, 2019.
- [657] P.E.T. Jorgensen, M.-S. Song and J. Tian, Positive definite kernels, algorithms, frames, and approximations, arXiv:2104.11807v1 (2021).
- [658] P.E.T. Jorgensen, M.-S. Song and J. Tian, Kernel-algorithms in frame-approximations, *Expositiones Mathematicae* (2024) <https://doi.org/10.1016/j.exmath.2024.125583>.
- [659] J.-G. Juang and B.-S. Lin, Nonlinear system identification by evolutionary computation and recursive estimation method, American Control Conference, Portland, OR, USA, June 8-10, 2005. pp. 5073-5078.
- [660] J.-G. Juang, B.-S. Lin and L.-H. Chien, Recurrent network and recursive estimation methods for state space modeling, *Information*, 15 (2012) 413-425.
- [661] A. Juhos, *CNN-Based Regularisation for CT Image Reconstructions*, Ph.D. Thesis, Budapest University of Technology and Economics, arXiv:2201.09132v1 (2021).
- [662] K.H. Jung and C.W. Lee, Image compression using projection vector quantization with quadtree decomposition, *Signal Processing: Image Communication*, 8 (1996) 379-386.
- [663] S.I. Kabanikhin, K.K. Sabelfeld, N.S. Novikov and M.A. Shishlenin, Numerical solution of an inverse problem of coefficient recovering for a wave equation by a stochastic projection methods, *Monte Carlo Methods Appl.*, 21 (2015) 189-203.
- [664] K. Kahl and N. Kintscher, Geometric multigrid for the tight-binding Hamiltonian of graphene, *SIAM J. Numer. Anal.*, 56 (2018), 499–519.

- [665] A.C. Kak, Digital image processing techniques, in M. P. Ekstrom (Ed.), *Digital Image Processing Techniques*, Academic Press, Orlando, 1984, pp. 111-169.
- [666] A.C. Kak and M. Slaney, *Principles of Computerized Tomographic Imaging*, Series: Classics in Applied Mathematics 33, SIAM, 2001.
- [667] K. Kalarat, W. Narkbuakaew, C. Pintavirooj and M. Sangworasil, Rapid simultaneous algebraic reconstruction technique (SART) for cone-beam geometry on clustering system, TENCON 2005 2005 IEEE Region 10, Melbourne, Qld. 21-24 Nov. 2005, pp. 1-4.
- [668] C.Kamath and A. Sameh, A projection method for solving nonsymmetric linear systems on multiprocessors, *Parallel Computing*, 9 (1989) 291-312.
- [669] G. Kamath, *Decentralized Convex Optimization for Wireless Sensor Networks*, Ph.D. Thesis, Georgia State University, USA, 2016.
- [670] G. Kamath, L. Shi, E. Chow, W. Song and J. Yang, Decentralized multigrid for in-situ big data computing, *Tsinghua Science and Technology*, 20 (2015) 545- 559.
- [671] G. Kamath, L. Shi, E. Chow and W.-Z. Song, Distributed tomography with adaptive mesh refinement in sensor networks, *International Journal of Sensor Network*, 23 (2017) 40–52.
- [672] G. Kamath, L. Shi, W.-Z. Song and J. Lees, Distributed travel-time seismic tomography in large-scale sensor networks, *J. Parallel Distrib. Comput.*, 89 (2016) 50-64.
- [673] C. Kamath and S. Weeratunga, Implementation of two projection methods on a shared memory multiprocessor: DEC VAX 6240, *Parallel Computing*, 16 (1990) 375-382.
- [674] C. Kamath and S. Weeratunga, Projection methods for the numerical solution of non-self-adjoint elliptic partial differential equations, *Numerical Methods for Partial Differential Equations*, 8 (1992) 59-76.
- [675] C.-G. Kang, Convergence rates of the Kaczmarz–Tanabe method for linear systems, *Journal of Computational and Applied Mathematics*, 394 (2021), 113577, 13 pages.
- [676] C.-G. Kang, The standard forms of the Kaczmarz–Tanabe type methods and their convergence theory, arXiv:2211.00328v1 (2022).
- [677] C.-G. Kang, The standard forms and convergence theory of the Kaczmarz–Tanabe type methods for solving linear systems, *Journal of Computational and Applied Mathematics* 434 (2023) 115333.
- [678] C.-G. Kang, On the block Kaczmarz–Tanabe methods with relaxation parameters for solving linear systems, *Numerical Algorithms* (2024) <https://doi.org/10.1007/s11075-024-01907-8>.
- [679] C.-G. Kang and H. Zhou, Error estimates of Kaczmarz and randomized Kaczmarz methods, arXiv:2210.00549v1 (2022).
- [680] K.S. Kang, The multigrid method for an elliptic problem on a rectangular domain with an internal conductiong structure and an inner empty space, IPP Report 5/128, Max-Planck-Institut für Plasmaphysik, Garching, 2011.
- [681] K. Kania, M. Maj, T. Rymarczyk, P. Adamkiewicz and M. Gołębek, Image reconstruction in ultrasound transmission tomography using the Fermat’s Principle, *Przegląd Elektrotechniczny*, 96 (2020) 186-189.
- [682] C.M. Kao, J.T. Yap, J. Mukherjee, et al., Image reconstruction for dynamic PET based on low-order approximation and restoration of the sinogram, *IEEE Transactions on Medical Imaging*, 16 (1997) 738-749.
- [683] A. Karapiperi, *Extrapolation Methods and their Applications in Numerical Analysis and Applied Mathematics*, Ph.D. Thesis, University of Padova, Italy, 2016.
- [684] A. Karpavičius, A. Coene, P. Bender and J. Leliaert, Advanced analysis of magnetic nanoflower measurements to leverage their use in biomedicine, *Nanoscale Advances*, 2021, DOI: 10.1039/d0na00966k.
- [685] S. Kartheeswaran, A.B. Lakshmi and D.C. Durairaj, Iterative image reconstruction algorithms on a multi-core system based on PSNR optimization, *Journal of Algebraic Statistics*, 13 (2022), 4224-4234.
- [686] A. Katrutsa and I. Oseledets, Preconditioning Kaczmarz method by sketching, arXiv:1903.01806v1 (2019).
- [687] T. Katsekor, *Iterative Methods for Large Scale Convex Optimization*, Ph.D. Thesis, University of Ghana, Accra, Ghana, 2017.
- [688] T. Katsekor, On the behaviour of the underrelaxed Hildreth’s row-action method for computing projections onto polyhedra, *OPSEARCH* (2023) <https://doi.org/10.1007/s12597-023-00656-x>.
- [689] T. Katsekor, Convergence of the Multiplicative Algebraic Reconstruction Technique for the Inconsistent System of Equations, *Operations Research Forum* (2023) 4:88.

- [690] G. Katz, Y. Benkarroum, H. Wei, W.J. Rice, D. Bucher, A. Alimova, A. Katz, J. Klukowska, G.T. Herman and P. Gottlieb, Morphology of influenza B/Lee/40 determined by cryo-electron microscopy, *PLOS ONE*, 9 (2014), e88288.
- [691] S. Kayalar and H.L. Weinert, Error bounds for the method of alternating projections, *Math. Control, Signals and Systems*, 1 (1988) 43-59.
- [692] S. Kawikitwittha, C. Pintavirooj, P. Tosranon, T. Kiriratnikom and S. Anuntaseree, 3D modeling from radiograph with conebeam geometry, IEEE Region 10 Conference, 21-24 Nov. 2004, pp, 399-402.
- [693] E.M. Kazemi and N.S. Nedialkov, An empirical study of algebraic-reconstruction techniques, in: J.R.S. Tavares, R.M.M. Jorge (Eds.), *Computational Vision and Medical Image Processing IV*, CRC Press 2013, pp. 93-98.
- [694] A. Keil, *Dynamic Variational Level Sets for Cardiac 4D Reconstruction*, Ph.D. Thesis, Technical University Munich, Germany, 2010.
- [695] F. Keinert and S. Weber, A randomized distributed Kaczmarz algorithm and anomaly detection, *Axioms*, 11 (2022), 106.
- [696] J.A. Kelner, L. Orecchia, A. Sidford and Z.A. Zhu, A simple, combinatorial algorithm for solving SDD systems in nearly-linear time, in Proceeding STOC '13 Proceedings of the forty-fifth annual ACM symposium on Theory of computing, ACM New York, (2013), pp. 911-920.
- [697] T. Kemmer, S. Hack B.Schmidt and A. Hildebrandt, CUDA-accelerated protein electrostatics in linear space, *Journal of Computational Science* 70 (2023) 102022.
- [698] V.M. Kibardin, Decomposition into functions in the minimization problem (in Russian), *Avtomat. i Telemekh.*, 1979 (9) 66-79, English translation in: *Automation and Remote Control*, 40 (1980) 1311-1323.
- [699] R. Kidambi, *Stochastic Gradient Descent For Modern Machine Learning: Theory, Algorithms And Applications*, Ph.D. Thesis, University of Washington, USA, 2019.
- [700] S. Kiefhaber, M. Rosenbaum, W. Sauer-Greff and R. Urbansky, A relation between algebraic and transform-based reconstruction technique in computed tomography, *Adv. Radio Sci.*, 11 (2013) 95-100.
- [701] V. Kilappa, *Ultrasound Measurements in Bone Using an Array Transducer*, Ph.D. Thesis, University of Jyväskylä, Finland, 2014.
- [702] B. Kilic, D.A. Soydan, A. Güngör and C.B. Top, Inverse Radon transform-based reconstruction with an open-sided magnetic particle imaging prototype, *Signal, Image and Video Processing*, 17 (2023), 1563-1570.
- [703] H. Kim, J. Xu and L. Zikatanov, Uniformly convergent multigrid methods for convection-diffusion problems without any constraint on coarse grids, *Advances in Computational Mathematics*, 20 (2004) 385-399.
- [704] D. Kimber and P.M. Long, On-line learning of smooth functions of a single variable, *Theoretical Computer Science*, 148 (1995) 141-156.
- [705] D. Kinderlehrer, S. Ta'asan, I. Livshits and D.E. Mason, The surface energy of MgO: multiscale reconstruction from thermal groove geometry, *Interface Science*, 10 (2002) 233-242.
- [KL14] S. Kindermann and A. Leitão, Convergence rates for Kaczmarz-type regularization methods, *Inverse Probl. Imaging*, 8 (2014), 149-172.
- [706] A.M. Kingston, A. Aminzadeh, L. Roberts, D. Pelliccia, I.D. Svalbe and D.M. Paganin, Optimizing illumination patterns for classical ghost imaging, arXiv:2211.03792v1 (2022).
- [707] N. Kintscher, *Automated Local Fourier Analysis (aLFA) and Geometric Multigrid for Graphene*, Ph.D. Thesis, Bergische Universität Wuppertal, Germany, 2019.
- [708] I.V. Kireev, Orthogonal projectors and systems of linear algebraic equations (in Russian), *Siberian J. Num. Math.* 23 (2020) 315-324.
- [709] A. Kireeva and J.A. Tropp, Randomized matrix computations: Themes and variations, arXiv:2402.17873v1 (2024).
- [710] S. Kirner, *Tomographic Two-Color-Pyrometry of the Wire Arc Spray Process regarding Particle Temperature and in-flight Particle Oxidation*, Ph. D. Thesis, Universität der Bundeswehr München, Germany, 2018.
- [711] Z. Kiss, *A Pixel-based Discrete Tomographic Technique and Its Applications*, Ph.D. Thesis, University of Szeged, Szeged, Hungary, 2011.
- [712] K.C. Kiwiul, Block-iterative surrogate projection methods for convex feasibility problems, *Linear Algebra Appl.*, 215 (1995) 225-259.
- [713] J.Z. Klimkowski, Compact scheme for systems of equations applied to fundamental problems of mechanics of continua, Technical Report NASA-CR-186494, NAS 1.26:186494, NASA Technical Reports Server, 1990.

- [714] A.D. Klose, Multi-spectral luminescence tomography with the simplified spherical harmonics equations, In: *Light Scattering Reviews* 7, (2012) Series Springer Praxis Books pp. 37-67.
- [715] T. Kluth and B. Jin, Numerical reconstruction in magnetic particle imaging, arXiv:1902.01199v1 (2019).
- [716] T. Kluth and B. Jin, Enhanced reconstruction in magnetic particle imaging by whitening and randomized SVD approximation, *Physics in Medicine & Biology*, 64 (2019), 125026.
- [717] T. Kluth and B. Jin, L1 data fitting for robust reconstruction in magnetic particle imaging: quantitative evaluation on Open MPI dataset, arXiv:2001.06083v1, 2020.
- [718] C. Knöchel, *Anwendung und Anpassung tomographischer Verfahren in der Röntgenmikroskopie*, Ph.D. Thesis, Georg-August-Universität zu Göttingen, Germany, 2005.
- [719] T. Knopp and T.M. Buzug, *Magnetic Particle Imaging. An Introduction to Imaging Principles and Scanner Instrumentation*, Springer, Berlin, 2012.
- [720] T. Knopp, M. Erbe, T.F. Sattel, S. Biederer and T.M. Buzug, A Fourier slice theorem for magnetic particle imaging using a field-free line, *Inverse Problems*, 27 (2011) 095004 (14pp).
- [721] T. Knopp, N. Gdaniec, R. Rehr, M. Graeser and T. Gerkmann, Correction of linear system drifts in magnetic particle imaging, *Phys. Med. Biol.* 64 (2019) 125013, 11 pages.
- [722] T. Knopp, M. Grosser, M. Gräser, T. Gerkmann and M. Möddel, Efficient joint estimation of tracer distribution and background signals in magnetic particle imaging using a dictionary approach, arXiv:2006.05741v1 (2020).
- [723] T. Knopp and M. Hofmann, Online reconstruction of 3D magnetic particle imaging data, *Physics in Medicine and Biology*, 61 (2016).
- [724] T. Knopp, J. Rahmer, T.F. Sattel, S. Biederer, J. Weizenecker, B. Gleich, J. Borgert and T.M. Buzug, Weighted iterative reconstruction for magnetic particle imaging, *Phys. Med. Biol.*, 55 (2010) 1577-1589.
- [725] T. Knopp, T.F. Sattel, S. Biederer, J. Rahmer, J. Weizenecker, B. Gleich, J. Borgert and T.M. Buzug, Model-based reconstruction for magnetic particle imaging, *IEEE Transactions on Medical Imaging*, 29 (2010) 12 - 18.
- [726] T. Knopp, P. Szwargulski, F. Griesea, M. Grosser, M. Boberg and M. Möddel, MPIReco.jl: Julia package for image reconstruction in MPI, *International Journal on Magnetic Particle Imaging*, 5 (2019) Article ID 1907001, 9 pages.
- [727] T. Knopp and A. Weber, Local system matrix compression for efficient reconstruction in magnetic particle imaging, *Advances in Mathematical Physics*, (2015) 472818 (7 pp).
- [728] E. Knudsen, 3D grainmap generation with the algebraic reconstruction technique from 3DXRD data, *Materials Science and Technology*, 21 (2005) 1376-1378.
- [729] W.W. Koczkodaj and S.J. Szarek, On distance-based inconsistency reduction algorithms for pairwise comparisons, *Logic Journal of the IGPL*, 18 (2010) 859-869.
- [730] P. Kolm, P. Arbenz and W. Gander, Generalized subspace correction methods, (Extended Abstract) CMCIM on Iterative Methods, April 9-13 1996.
- [731] A. Kolcz and N.M. Allinson, Basis function models of the CMAC network, *Neural Networks*, 12 (1999) 107-126.
- [732] H. Kong and J. Pan, A projection access scheme based on prime number increment for cone-beam iterative reconstruction, In: *Advanced Electrical and Electronics Engineering*, Lecture Notes in Electrical Engineering, Vol. 87, Springer, 2011, pp. 179-185.
- [733] T.Y. Kong, H. Pajoohesh and G.T. Herman, String-averaging algorithms for convex feasibility with infinitely many sets, arXiv:1807.00234v1 (2018).
- [734] R.D. Kongskov, J.S. Jørgensen, H.F. Poulsen and P.C. Hansen, Noise robustness of a combined phase retrieval and reconstruction method for phase-contrast tomography, *Journal of the Optical Society of America A*, 33 (2016), 447-454.
- [735] I. Konnov, *Combined Relaxation Methods for Variational Inequalities*, Springer, Berlin, 2000.
- [736] I.V. Konnov, Combined relaxation methods for generalized monotone variational inequalities, in: I.V. Konnov, D.T. Luc, A.M. Rubinov, *Generalized Convexity and Related Topics*, Volume 583 of the series Lecture Notes in Economics and Mathematical Systems, Springer 2007, pp. 3-31.
- [737] A. Korpisalo, Characterization of geotomographic studies with the EMRE system, *International Journal of Geophysics*, (2014) 401654 (18 pp).
- [738] A. Korpisalo, Geotomographic studies for ore explorations with the EMRE system, *Measurement*, 48 (2014) 232-247.

- [739] A. Korpisalo, *Electromagnetic Geotomographic Research on Attenuating Material Using the Middle Radio Frequency Band*, Ph.D. Thesis, University of Helsinki, Finland, 2016.
- [740] S. Koshigoe, A. Teagle, C.-H. Tsay, S. Morishita and S. Une, Numerical simulation of active control with on-line system identification on sound transmission through an elastic plate, *Journal of the Acoustical Society of America*, 99 (1996) 2947-2954.
- [741] P. Kosmol, Über die sukzessive Wahl des kürzesten Weges, in: *Ökonomie und Mathematik*, Springer-Verlag, Berlin, 1987, pp. 35-42.
- [742] R.P. Kostecki, Categories of Bregman operations and epistemic (co)monads, arXiv:2103.07810v1 (2021).
- [743] V. Kostic and S. Salzo, The method of Bregman projections in deterministic and stochastic convex feasibility problems, arXiv:2101.01704v1 (2021).
- [744] V.R. Kostić, S. Salzo, The method of randomized Bregman projections for stochastic feasibility problems, *Numerical Algorithms*, 93 (2023), 1269–1307.
- [745] H. Köstler, C. Popa, M. Prümmer and U. Råde, Towards an algebraic multigrid method for tomographic image reconstruction-improving convergence of ART, European Conference on Computational Fluid Dynamics, ECCOMAS CFD 2006, P. Wesseling, E. Oñate, J. Périaux (Eds.).
- [746] B. Kratz and F. Herold, The influence of reconstruction methods on measurements in CT-volumes, 12th ECNDT, Gothenburg, Sweden, 2018.
- [747] M. Kreutzer, J. Thies, M. Röhrig-Zöllner, A. Pieper, F. Shahzad, M. Galgon, A. Basermann, H. Fehske, G. Hager and G. Wellein, GHOST: Building blocks for high performance sparse linear algebra on heterogeneous systems, *International Journal of Parallel Programming*, 45 (2016).
- [748] V. N. Krutikov and Y.N. Vershinin, Subgradient minimization method with descent vectors correction by means of training relations pairs (in Russian), *Vestnik of the Kemerovo State University*, 1(57) (2014) 46-54.
- [749] H. Kruse and F. Natterer, A direct algebraic algorithm in computerized tomography, In: P. Deuffhard, B. Engquist (Eds.), *Large Scale Scientific Computing*, Progress in Scientific Computing, 7, Springer, 1987, pp. 245-256.
- [750] E.V. Kuhn, J.E. Kolodziej and R. Seara, Stochastic modeling of the NLMS algorithm for complex Gaussian input data and nonstationary environment, *Digital Signal Processing*, 30 (2014) 55-66.
- [751] A. Kunoth, Fast Iterative Solution of Saddle Point Problems in Optimal Control Based on Wavelets, *Computational Optimization and Applications*, 22 (2002) 225-259.
- [752] S.S. Kuo and R. J. Mammone, Resolution enhancement of tomographic images using the row action projection method, *IEEE Transactions on Medical Imaging*, 10 (1991) 593-601.
- [753] S.S. Kuo and R.J. Mammone, Image restoration by convex projections using adaptive constraints and the L_1 norm, *IEEE Transactions on Signal Processing*, 40 (1992) 159-168.
- [754] A. Kushnerov, A Seminumerical Transient Analysis of Switched Capacitor Converters, *IEEE Journal of Emerging and Selected Topics in Power Electronics*, 2 (2014) 814-820.
- [755] D. Kushnir, M. Galun and A. Brandt, Efficient multilevel eigensolvers with applications to data analysis tasks, *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 32 (2010) 377-1391.
- [756] S. Kwapien and J. Mycielski, On the Kaczmarz algorithm of approximation in infinite-dimensional spaces, *Studia Mathematica*, 148 (2001) 5-86.
- [757] S. Kwapien and J. Mycielski, Erratum to the paper: "On the Kaczmarz algorithm of approximation in infinite-dimensional spaces" *Studia Math.* 176 (2006) 93.
- [758] K.T. Ladas and A. J. Devaney, Generalized ART algorithm for diffraction tomography, *Inverse Problems*, 7 (1991) 109-125.
- [759] C.M. Lagoa, L. Zaccarian and F. Dabbene, A distributed algorithm with consistency for PageRank-like linear algebraic systems, *IFAC PapersOnLine* 50 (2017) 5172–5177.
- [760] T. Laepple, V. Knab, K.U. Mettendorf, et al., Longpath DOAS tomography on a motorway exhaust gas plume: numerical studies and application to data from the BAB II campaign, *Atmos. Chem. Phys. Discuss.* 4 (2004) 2435-2484.
- [761] A.B. Lakshmi and D.C. Durairaj, PSNR based optimization applied to algebraic reconstruction technique for image reconstruction on A multi-core system, *Journal of a Science and Information*, 10 (2017), 86-95.
- [762] J. Lampe, C. Bassoy, J. Rahmer, J. Weizenecker, H. Voss, B. Gleich and J. Borgert, Fast reconstruction in magnetic particle imaging, *Phys. Med. Biol.*, 57 (2012) 1113.

- [763] D. Lanman, G. Wetzstein, M. Hirsch, W. Heidrich and R. Raskar, Polarization fields: dynamic light field display using multi-layer LCDs, in Proceedings of the 2011 SIGGRAPH Asia Conference, ACM, New York (2011), Article 186, (10 pp.)
- [764] D. Lanman, G. Wetzstein, M. Hirsch, W. Heidrich and R. Raskar, Beyond parallax barriers: applying formal optimization methods to multilayer automultiscopic displays, in: A.J. Woods, N.S Holliman, G.E. Favalora (Eds.) *Stereoscopic Displays and Applications XXIII*, 82880A-82880A-13. SPIE-International Society for Optical Engineering, 2012.
- [765] I. Larrabide, A.A. Novotny, R.A. Feijóo and R. de Souza Leão Lima, A simple method for tomography reconstruction, *Inverse Problems in Science and Engineering*, 17 (2009) 365-380.
- [766] S.F. Lauber, *Advanced Numerical and Experimental Beam Dynamics Investigations for the CW-Heavy Ion Linac HELmholtz LLinear ACcelerator*, Ph.D. Thesis, Johannes Gutenberg-Universität in Mainz, Germany (2022).
- [767] P.G. Lauwers, Multiscale methods for computing propagators in lattice gauge theory, in: *Multigrid Methods IV*, ISNM International Series of Numerical Mathematics, Vol. 116, Springer, 1994, pp. 57-76.
- [768] P.G. Lauwers, Multiscale Monte Carlo algorithms in statistical mechanics and quantum field theory, in: *Multigrid Methods III*, Numerical Mathematics, 98, Springer, 1991, pp. 61-82.
- [769] P.G. Lauwers, R. Ben-Av and S. Solomon, Inverting the Dirac matrix for SU(2) lattice Gauge-theory by means of parallel transported multigrid, *Nuclear Physics B*, 374 (1992) 249-259.
- [770] P.G. Lauwers and T. Wittlich, Inversion of the fermion matrix in lattice QCD by means of parallel-transported multigrid (PTMG), *International Journal of Modern Physics and Computers*, 4 (3) (1993) 609-620.
- [771] P.G. Lauwers and T. Wittlich, Parallel-transported multigrid (PTMG) for inverting the Dirac-operator in SU(3) lattice gauge theory, *Nuclear Physics B – Proceedings Supplements*, 30 (1993), 261–264.
- [772] K.J.H. Law and V. Zankin, Sparse online variational Bayesian regression, arXiv:2102.12261v1 (2021).
- [773] K. Layton, *Advances in Magnetic Resonance Imaging Using Statistical Signal Processing*, Ph.D. Thesis, University of Melbourne, Australia, 2013.
- [774] R.K. Leary and P.A. Midgley, Electron tomography in material science, in: P.W. Hawkes, J.C.H. Spence (Eds.), *Springer Handbook of Microscopy*, Springer 2019, pp. 1279-1329.
- [775] J.K. Lee, F. Kamalabadi, J.J. Makela, Localized three-dimensional ionospheric tomography with GPS ground receiver measurements, *Radio Science*, 42 (2007) Issue 4. DOI: 10.1029/2006RS003543
- [776] Y.T. Lee and A. Sidford, Efficient accelerated coordinate descent methods and faster algorithms for solving linear systems, in: 2013 IEEE 54th Annual Symposium on Foundations of Computer Science (FOCS), Berkeley, 26-29 Oct. 2013, pp. 147-156. DOI 10.1109/FOCS.2013.24, arXiv:1305.1922v1
- [777] T. van Leeuwen, Fourier analysis of the CGMN method for solving the Helmholtz equation, arXiv:1210.2644v2 (2013).
- [778] T. van Leeuwen, D. Gordon, R. Gordon and F.J. Herrmann, Preconditioning the Helmholtz equation via row-projections, 74th EAGE Conference and Exhibition incorporating EUROPEC 2012. DOI: 10.3997/2214-4609.20148099.
- [779] T. van Leeuwen and F.J. Herrmann, 3D frequency-domain seismic inversion with controlled sloppiness, *SIAM J. Sci. Comput.*, 36 (2014) S192-S217.
- [780] Y. Lei and D.-X. Zhou, Learning theory of randomized sparse Kaczmarz method. *SIAM Journal on Imaging Sciences*, 11 (2018), 547–574.
- [781] A. Leitão and M.M. Alves, On Landweber–Kaczmarz methods for regularizing systems of ill-posed equations in Banach spaces, *Inverse Problems*, 28 (2012) 104008 (15pp).
- [782] A. Leitão and B.F. Svaiter, On projective Landweber–Kaczmarz methods for solving systems of nonlinear ill-posed equations, *Inverse Problems*, 32 (2016) 025004.
- [783] A. Leitão and B.F. Svaiter, On a family of gradient type projection methods for nonlinear ill-posed problems, *Numerical Functional Analysis and Optimization*, 39 (2018).
- [784] D.J. Leventhal, *Effects of Conditioning on the Convergence of Randomized Optimization Algorithms*, Ph.D. Thesis, Cornell University, NY, USA, 2009.
- [785] L.A.D. Lewis, *Solution of General Linear Systems of Equations Using Block Krylov Based Iterative Methods on Distributed Computing Environments*, Ph.D. Thesis, Toulouse, France, 1995.
- [786] X. Li, Fine-granularity and spatially-adaptive regularization for projection-based image deblurring, *IEEE Transactions on Image Processing*, 20 (2011) 971-983 .

- [787] G. Li, Y. Gu and Y.M. Lu, Phase retrieval using iterative projections: dynamics in the large systems limit, Fifty-third Annual Allerton Conference Allerton House, UIUC, Illinois, USA, September 29 - October 2, 2015, pp. 1114-1118.
- [788] G. Li, Y. Jiao and Y. Gu, Convergence analysis on a fast iterative phase retrieval algorithm without independence assumption, 2018 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP).
- [789] G. Li, S. Luo, Y. Yan and N. Gu, A method of extending the depth of focus of the high-resolution X-ray imaging system employing optical lens and scintillator: a phantom study, *BioMedical Engineering OnLine*, 14 (2015) 15pp.
- [790] H. Li and M. Haltmeier, The averaged Kaczmarz iteration for solving inverse problems, *SIAM Journal on Imaging Sciences*, 11 (2018) 618–642.
- [791] H. Li and Y. Zhang, A novel greedy Kaczmarz method for solving consistent linear systems, arXiv:2004.02062v1, 2020.
- [792] N. Li and Y.-F. Yin, The randomized circumcentered-reflection iteration method for solving consistent linear equations, *Research Square*, (2022), doi.org/10.21203/rs.3.rs-1839532/v1
- [793] R.-R. Li and H. Liu, On randomized partial block Kaczmarz method for solving huge linear algebraic systems, *Computational and Applied Mathematics*, 41:278 (2022), 10 pages.
- [794] T. Li, T.-J. Kao, D. Isaacson, J.C. Newell and G.J. Saulnier, Adaptive Kaczmarz method for image reconstruction in electrical impedance tomography, *Physiol. Meas.*, 34 (2013) 595-608.
- [795] X. Li, Nonlocal regularized algebraic reconstruction techniques for MRI: An experimental study, *Mathematical Problems in Engineering*, (2013) 192895 (11 pp).
- [796] X. Li, *Mathematical Modeling of Epidemics and Adversarial Learning in Distributed Systems*, Ph.D. Thesis, University of California, Los Angeles, USA (2022).
- [797] W. Li, Q. Wang, W. Bao and L. Liu, On Kaczmarz method with oblique projection for solving large overdetermined linear systems, arXiv:2106.13368v1, 2021.
- [798] W. Li, Q. Wang, W. Bao and L. Xing, Kaczmarz method with oblique projection, *Results in Applied Mathematics*, 16 (2022), 100342.
- [799] Y. Li and G. Lan, First-order policy optimization for robust policy evaluation, arXiv:2307.15890v1 (2023).
- [800] Y. Li, L. Métivier, R. Brossier, B. Han and J. Virieux, CARP-CG: A robust parallel iterative solver for frequency-domain elastic wave modeling, application to the Marmousi2 model, SEG Annual Meeting, Denver, Colorado, USA, 26-31 October 2014, pp. 3487-3492.
- [801] Y. Li, L. Métivier, R. Brossier, B. Han and J. Virieux, 2D and 3D frequency-domain elastic wave modeling in complex media with a parallel iterative solver, *Geophysics*, 80 (2015) T101-T118.
- [802] Y. Li, K. Mo and H. Ye, Accelerating random Kaczmarz algorithm based on clustering information, AAAI'16: Proceedings of the Thirtieth AAAI Conference on Artificial Intelligence, 2016, pp. 1823–1829.
- [803] L. Liang, Q. Pang, K.C. Toh and H. Yang, Nesterov's accelerated Jacobi-type methods for large-scale symmetric positive semidefinite linear systems, arXiv:2407.03272v1 (2024).
- [804] Y.-F. Liang and H.-B. Li, Orthogonal blocking Kaczmarz algorithm based on preprocessing technology, arXiv:2401.00672v2 (2024).
- [805] Y. Liao, F. Yin and G. Huang, A relaxed greedy block Kaczmarz method for solving large consistent linear systems, *Journal of Applied Mathematics and Physics*, 9 (2021) 3032-3044.
- [806] B.D. Liberol, O.G. Rudenko and A.A. Bezsonov, Pseudoprojection estimation algorithms based on approximation of orthogonal projection operation, *Journal of Automation and Information Sciences*, 52 (2020), 13-32.
- [807] F. Lieb and T. Knopp, A wavelet based sparse row-action method for image reconstruction in magnetic particle imaging, arXiv:2003.13787v1, 2020.
- [808] X. Lili, B. Wendi and L. Weiguo, Kaczmarz-type method for solving matrix equation $AXB = C$, arXiv:2305.16684v1 (2023).
- [809] C. Lin, G.T. Herman and M.V.W. Zibetti, Enhancement of the Kaczmarz algorithm with projection adjustment, *Numerical Algorithms*, 85 (2020) 713–736
- [810] J. Lin and D.-X. Zhou, Learning theory of randomized Kaczmarz algorithm, *Journal of Machine Learning Research*, 16 (2015) 3341-3365.
- [811] W. Lin, G. Tian and X. Sun, Quantum multirow iteration algorithm for linear systems with nonsquare coefficient matrices, *Phys. Rev. A*, 110 (2024) 022438.

- [812] B.S. van Lith, P.Ch. Hansen and M.E. Hochstenbach, A twin error gauge for Kaczmarz's iterations, arXiv:1906.07470v1, 2019.
- [813] H. Liu, Y. Chen and J. Xie, Case study on a novel approach to determining initial values for 3D water vapor tomography in the a priori water vapor field, *Advances in Space Research*, 2 (2023), 3170-3180.
- [814] J. Liu, S.L. Grant and J. Benesty, A low complexity reweighted proportionate affine projection algorithm with memory and row action projection, *EURASIP Journal on Advances in Signal Processing*, (2015) 2015:99 (12 pp).
- [815] J. Liu, S.J. Wright and S. Sridhar, An asynchronous parallel randomized Kaczmarz algorithm, arXiv:1401.4780v2 (2014).
- [816] J. Liu and S.J. Wright, An accelerated randomized Kaczmarz algorithm, *Math. Comp.*, 85 (2016), 153-178.
- [817] K.-Z. Liu and C. Gan, Deterministic gradient-descent learning of linear regressions: Adaptive algorithms, convergence analysis and noise compensation, *IEEE Transactions on Pattern Analysis and Machine Intelligence* (2024), doi: 10.1109/TPAMI.2024.3399312.
- [818] S. Liu, K. Zhang, S. Wu, W. Zhang, L. Li, M. Wan, J. Shi, M. Zhang and A. Hu, A two-step projected iterative algorithm for tropospheric water vapor tomography, *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 15 (2022), 5999 - 6015.
- [819] Y. Liu, *Improve Industrial Cone-Beam Computed Tomography by Integrating Prior Information*, Ph.D. Thesis, ETH Zurich, Switzerland, 2017.
- [820] Y. Liu, An efficient method for non-convex blind deconvolution, *IEEE Access*, 7 (2019) 113663-113674.
- [821] Y. Liu and Ch.-Q. Gu, Variant of greedy randomized Kaczmarz for ridge regression, *Applied Numerical Mathematics*, 143 (2019) 223-246.
- [822] Y. Liu and Ch.-Q. Gu, Two greedy subspace Kaczmarz algorithm for image reconstruction, *IAENG International Journal of Applied Mathematics*, 50 (2020) 853-859.
- [823] Y. Liu and Ch.-Q. Gu, On greedy randomized block Kaczmarz method for consistent linear systems, *Linear Algebra and its Applications*, 616 (2021), 178-200
- [824] Y. Liu, C. Lageman, B.D.O. Anderson and G. Shi, Exponential least squares solvers for linear equations over networks, *IFAC-PapersOnLine* 50 (2017) 2543-2548.
- [825] Y. Liu, C. Lageman, B.D.O. Anderson and G. Shi, An Arrow-Hurwicz-Uzawa Type Flow as Least Squares Solver for Network Linear Equations, *Automatica*, 100 (2019), 187-193.
- [826] Y. Liu and Z. Zhang, On greedy randomized Kaczmarz algorithm for the solution of Tikhonov regularization problem, *IAENG International Journal of Applied Mathematics*, 54 (2024), 1383-1389.
- [827] I. Livshits, The least squares AMG Solver for the one-dimensional Helmholtz operator, *Comput. Visual. Sci.*, 14 (2011) 17-25.
- [828] I. Livshits, A scalable multigrid method for solving indefinite Helmholtz equations with constant wave numbers, *Numerical Linear Algebra with Applications*, 21 (2014) 177-193.
- [829] I. Livshits, Use of shifted Laplacian operators for solving indefinite Helmholtz equations, *Numer. Math. Theor. Meth. Appl.*, 8 (2015) 136-148.
- [830] N. Loizou, *Randomized Iterative Methods for Linear Systems: Momentum, Inexactness and Gossip*, Ph.D. Thesis, University of Edinburgh, Great Britain, 2019.
- [831] N. Loizou and P. Richtárik, Momentum and stochastic momentum for stochastic gradient, Newton, proximal point and subspace descent methods, *Computational Optimization and Applications*, 77 (2020) 653-710.
- [832] N. Loizou and P. Richtárik, Convergence analysis of inexact randomized iterative methods, *SIAM J. Sci. Comput.*, 42 (2019) A3979-A4016.
- [833] N. Loizou and P. Richtárik, Accelerated gossip via stochastic heavy ball method, 56th Annual Allerton Conference on Communication, Control, and Computing, 2018.
- [834] N. Loizou, S. Vaswani, I. Laradji and S. Lacoste-Julien, Stochastic Polyak step-size for SGD: An adaptive learning rate for fast convergence, arXiv:2002.10542v1, 2020.
- [835] J. Lok and E. Rebrova, A subspace constrained randomized Kaczmarz method for structure or external knowledge exploitation, arXiv:2309.04889v1 (2023).
- [836] P.M. Long, Absolute loss bounds for prediction using linear functions, Technical Report, 1996.

- [837] P.M. Long, On-line evaluation and prediction using linear functions, COLT '97 Proceedings of the tenth Annual Conference on Computational Learning Theory, pp. 21-31, 1997.
- [838] J.A. De Loera, J. Haddock and D. Needell, A sampling Kaczmarz-Motzkin algorithm for linear feasibility, *SIAM J. Sci. Comput.*, 39, (2017) S66–S87
- [839] M. Lohvithee, *Iterative Reconstruction Technique for Cone-beam Computed Tomography with Limited Data*, Ph.D. Thesis, University of Bath, Great Britain, 2018
- [840] H. Long, B. Han and S. Tong, A new Kaczmarz type method and its acceleration for nonlinear ill-posed problems, *Inverse Problems Inverse Problems*, 35 (2019), 055004.
- [841] W. López, A new way of computing the orthogonal projection onto the intersection of two hyperplanes in a finite-dimensional Hilbert space, *Applied Mathematics E-Notes*, 18 (2018), 116-123.
- [842] D.A. Lorenz, S. Rose and F. Schöpfer, The randomized Kaczmarz method with mismatched adjoint, *BIT Numerical Mathematics*, 58 (2018), 1079–1098.
- [843] D. Lorenz, S. Wenger, F. Schöpfer and M. Magnor, A sparse Kaczmarz solver and a linearized Bregman method for online compressed sensing, 2014 IEEE International Conference on Image Processing (ICIP) DOI: 10.1109/ICIP.2014.7025269.
- [844] D.A. Lorenz, F. Schöpfer and S. Wenger, The linearized Bregman method via split feasibility problems: analysis and generalizations, *SIAM Journal on Imaging Sciences*, 7 (2014) 1237-1262.
- [845] K. Lozev, Numerical solution of the tomography problem in the presence of obstacles, *International Journal of Tomography & Simulation*, 20 (2012).
- [846] K. Lozev, Mathematical modeling and solution of the tomography problem in domains with reflecting obstacles, arXiv:1209.0130v1 (2012).
- [847] T. Lu and S.S. Udpa, Optoelectronic system for implementation of iterative computer tomography algorithms, US Patent US 5414623A, (1995).
- [848] M. Lunglmayr and M. Huemer, Parameter optimization for step-adaptive approximate least square, in: R. Moreno-Díaz, F. Pichler, A. Quesada-Arencibia (Eds.), *Computer Aided Systems Theory – EUROCAST 2015*, Lecture Notes in Computer Science 9520, Springer, 2015, pp. 521-528.
- [849] M. Lunglmayr, O. Lang and M. Huemer, Knowledge-aided Kaczmarz and LMS algorithms, arXiv:1712.02146v1 (2017).
- [850] M. Lunglmayr, T. Paireder and M. Huemer, Null space projection enhanced LMS filters, *IEEE Transactions on Circuits and Systems II: Express Briefs*, (2020), doi: 10.1109/TCSII.2020.2979034.
- [851] M. Lunglmayr, C. Unterrieder and M. Huemer, Step-adaptive approximate least squares, 23rd European Signal Processing Conference, Nice, Aug. 31 – Sept. 4 2015, pp. 1108-1112.
- [852] K.D. Luxbacher, *Time-Lapse Passive Seismic Velocity Tomography of Longwall Coal Mines: A Comparison of Methods*, Ph.D. Thesis, Virginia Polytechnic Institute & State University, Blacksburg, Virginia, USA, 2008.
- [853] T. Lütjen, F. Schönfeld, A. Oberacker, J. Leuschner, M. Schmidt, A. Wald and T. Kluth, Learning-based approaches for reconstructions with inexact operators in nanoCT applications, arXiv:2307.10474v2 (2023).
- [854] Z. Lv, W. Bao, W. Li, F. Wang and G. Wu, On extended Kaczmarz methods with random sampling and maximum-distance for solving large inconsistent linear systems, *Results in Applied Mathematics*, 13 (2022) 100240.
- [855] Y. Lv, W. Bao, L. Xing and W. Li, A class of pseudoinverse-free greedy block nonlinear Kaczmarz methods for nonlinear systems of equations, arXiv:2304.13220v1 (2023).
- [856] V.V. Lyubimov, A.G. Kalintsev, A.B. Kononov, O.V. Lyamtsev, O.V. Kravtsenyuk, A.G. Murzin, O.V. Golubkina, G.B. Mordvinov, L.N. Soms and L.M. Yavorskaya, Application of the photon average trajectories method to real-time reconstruction of tissue inhomogeneities in diffuse optical tomography of strongly scattering media, *Physics in Medicine and Biology*, 47 (2002) 2109-2128.
- [857] S. Ma, *Easy and Efficient Optimization for Modern Supervised Learning*, Ph.D. Thesis, Ohio State University, USA, 2019.
- [858] T. Ma, Accelerated Kaczmarz algorithms using history information, arXiv:1608.00351v1 (2016).
- [859] A. Ma and D. Molitor, Randomized Kaczmarz for tensor linear systems, arXiv:2006.01246v1 (2020).
- [860] A. Ma, D. Needell and A. Ramdas, Convergence properties of the randomized extended Gauss–Seidel and Kaczmarz methods, *SIAM J. Matrix Anal. & Appl.*, 36 (2015) 1590-1604.
- [861] A. Ma, D. Needell and A. Ramdas, Iterative methods for solving factorized linear systems, *SIAM J. Matrix Anal. Appl.*, 39 (2018), 104–122.

- [862] A. Ma and D. Needell, Stochastic gradient descent for linear systems with missing data, *Numer. Math. Theor. Meth. Appl.*, 12 (2018), 1-20.
- [863] J. Ma and M. Hudson, Block-iterative Fisher scoring algorithms for maximum penalized likelihood image reconstruction in emission tomography, *IEEE Transactions on Medical Imaging*, 27 (2008) 1130-1142.
- [864] S. Ma, R. Bassily and M. Belkin, The power of interpolation: Understanding the effectiveness of SGD in modern over-parametrized learning, Proceedings of the 35th International Conference on Machine Learning, Stockholm, Sweden, PMLR 80, 2018.
- [865] M. Maass, C. Droigk, F. Katzberg, P. Koch, and A. Mertins, A recovery algorithm based on the Kaczmarz algorithm and ADMM splitting with application to convex optimization in magnetic particle imaging, 28th European Signal Processing Conference (EUSIPCO), Amsterdam, 2021, pp. 2135-2139, doi: 10.23919/Eusipco47968.2020.9287487, 2020.
- [866] P. Maass, W. Treimer and U. Feye-Treimer, Tomographic methods for 2D reconstruction with the double crystal diffractometer, *IMPACT of Computing in Science and Engineering*, 4 (1992) 250-268.
- [867] G. Maess, Projection methods solving rectangular systems of linear equations, *Journal of Computational and Applied Mathematics*, 24 (1988) 107-119.
- [868] S.S. Maganti, A. Kumar and A.P. Dhawan, New model for optical image reconstruction for Neoscope images, Proc. SPIE 3659, Medical Imaging 1999: Physics of Medical Imaging, 914 (1999). doi:10.1117/12.349574
- [869] H. Maitre, Iterative picture restoration using video optical feedback, *Computer Graphics and Image Processing*, 16 (1981) 95-115.
- [870] K. Majidi, J.G. Brankov, J. Li, C. Muehleman and M.N. Wernick, Limited-angle tomography for multiple-image radiography, IEEE Nuclear Science Symposium Conference Record, Honolulu, HI, Oct. 26 – Nov. 3, 2007, pp. 3098 - 3101.
- [871] K. Majidi, J. G. Brankov and M. N. Wernick, Tomosynthesis implementation of multiple image radiography, 4th IEEE International Symposium on Biomedical Imaging: From Nano to Macro, Arlington, VA, 12-15 April 2007, pp. 832-835.
- [872] K. Majidi, M.N. Wernick, J. Li, C. Muehleman and J.G. Brankov, Limited-angle tomography for analyzer-based phase-contrast X-ray imaging, *Phys. Med. Biol.*, 59 (2014) 3483-3500.
- [873] T. Malas, *Parallel Image Restoration*, Ph.D. Thesis, Bilkent University, Ankara, Turkey, 2004.
- [874] L. Maligranda, Stefan Kaczmarz (1895-1939), *Antiquitates Mathematicae*, 1 (2007) 15-61.
- [875] M. Mamdouh, O.A. Omer, A.M. Hassan and M. Sharkas, A bounded Lorentzian estimation for an iterative tomographic imaging reconstruction supported with Lorentzian regularization, *Journal of Advanced Research in Applied Mechanics*, 38 (2017) 1-7.
- [876] H. Mansour and O. Yilmaz, A fast randomized Kaczmarz algorithm for sparse solutions of consistent linear systems, arXiv:1305.3803v1 (2013).
- [877] H. Mansour, U. Kamilov and Ö. Yılmaz, A Kaczmarz method for low rank matrix recovery, www.merl.com/publications/docs/TR2017-073.pdf, (2017).
- [878] J.-F. Mao and F. Chen, On multi-step partially randomized extended Kaczmarz method for solving large sparse inconsistent linear systems, *Communications on Applied Mathematics and Computation* (2024), <https://doi.org/10.1007/s42967-024-00385-y>.
- [879] R. Marabini, G.T. Herman and J.M. Carazo, Fully three-dimensional reconstruction in electron microscopy, in: *Computational Radiology and Imaging*, The IMA Volumes in Mathematics and its Applications, 110, 1999, pp. 251-281.
- [880] R. Marabini, E. Rietzel, R. Schroeder, G.T. Herman and J.M. Carazo, Three-dimensional reconstruction from reduced sets of very noisy images acquired following a single-axis tilt schema: Application of a new three-dimensional reconstruction algorithm and objective comparison with weighted backprojection, *Journal of Structural Biology*, 120 (1997) 363-371.
- [881] B. Marchetti, A. Grudiev, P. Craievich, R. Assmann, H.-H. Braun, N.C. Lasheras, F. Christie, R. D’Arcy, R. Fortunati, R. Ganter, P.G. Caminal, M. Hoffmann, M. Huening, S.M. Jaster-Merz, R. Jonas, F. Marcellini, D. Marx, G. McMonagle, J. Osterhoff, M. Pedrozzi, E.P. Costa, S. Reiche, M. Reukauff, S. Schreiber, G. Tews, M. Vogt, S. Wesch and W. Wuensch, Experimental demonstration of novel beam characterization using a polarizable X-band transverse deflection structure, *Scientific Reports* (2021) 11:3560, doi.org/10.1038/s41598-021-82687-2
- [882] S. Maretzke, Generalized SART-methods for tomographic imaging, arXiv:1803.04726v1 (2018).
- [883] S. Maretzke, M. Bartels, M. Krenkel, T. Salditt and T. Hohage, Regularized Newton methods for X-ray phase contrast and general imaging problems, *Optics Express*, 24 (2016), 6490–6506.

- [884] F. Margotti and A. Rieder, An inexact Newton regularization in Banach spaces based on the nonstationary iterated Tikhonov method, *J. Inverse Ill-Posed Probl.*, 23 (2015) 373-392.
- [885] M. Marijan and Z. Ignjatovic, Non-linear reconstruction of delta-sigma modulated signals: randomized surrogate constraint decoding algorithm, *IEEE Transactions on Signal Processing*, 61 (2013) 5361-5373.
- [886] L.D. Marks, W. Sinkler and E. Landree, A feasible set approach to the crystallographic phase problem, *Acta Crystallographica A*, 55 (1999) 601-612.
- [887] T. Markussen, X.W. Fu, L. Margulies, E.M. Lauridsen, E.M. Nielsen, S.F. Schidt and F.F. Poulsen, An algebraic algorithm for generation of three-dimensional grain maps based on diffraction with a wide beam of hard X-rays, *J. Appl. Cryst.*, 37 (2004) 96-102.
- [888] N.F. Marshall and O. Mickelin, An optimal scheduled learning rate for a randomized Kaczmarz algorithm, arXiv:2202.12224v3 (2022).
- [889] T. Marti, On the convergence of the discrete ART algorithm for the reconstruction of digital pictures from their projections, *Computing*, 21 (1979) 105-111.
- [890] J.M. Martínez, The projection method for solving nonlinear-systems of equations under the most violated constraint control, *Comp. & Maths. with Appls.*, 11 (1985) 987-993.
- [891] J.M. Martínez, Solving systems of nonlinear equations by means of an accelerated successive orthogonal projections method, *Journal of Computational and Applied Mathematics*, 16 (1986) 169-179.
- [892] J.M. Martínez, The method of successive orthogonal projections for solving nonlinear simultaneous equations, *CALCOLO*, 23 (1986) 93-104.
- [893] J.M. Martínez, An accelerated successive orthogonal projections method for solving large-scale linear feasibility problems, *Comput. Math. Applic.*, 15 (1988) 367-373.
- [894] J.M. Martínez, Algorithms for Solving Nonlinear Systems of Equations, in: *Algorithms for Continuous Optimization*, Volume 434 of the series NATO ASI Series, pp. 81-108.
- [895] R.A. Martínez Muñoz, *Taxas de Convergência para Métodos Iterativos Cíclicos em Problemas Mal Postos*, Ph.D. Thesis, Universidade Federal de Santa Catarina, Florianópolis, Brazil, 2015.
- [896] J.M. Martínez and R.J.B. de Sampaio, Parallel and sequential Kaczmarz methods for solving underdetermined nonlinear equations. *J. Comput. Appl. Math.*, 15 (1986) 311-321.
- [897] V. Martín-Márquez, S. Reich and S. Sabach, Iterative methods for approximating fixed points of Bregman nonexpansive operators, *Discrete and Continuous Dynamical Systems*, 6 (2013) 1043-1063.
- [898] A.-L. Martins, *Local and Global Analysis of Relaxed Douglas-Rachford for Nonconvex Feasibility Problems*, Ph.D. Thesis, Georg-August-Universität Göttingen, Germany, 2019.
- [899] D. Marx, R. Assmann, P. Craievich, U. Dorda, A. Grudiev and B. Marchetti, Reconstruction of the 3D charge distribution of an electron bunch using a novel variable-polarization transverse deflecting structure (TDS), *IOP Conf. Series: Journal of Physics: Conf. Series 874* (2017) 012077.
- [900] D. Marx, R.W. Assmann, P. Craievich, K. Floettmann, A. Grudiev and B. Marchetti, Simulation studies for characterizing ultrashort bunches using novel polarizable X-band transverse deflection structures, *Scientific Reports*, 9 (2019), Article number: 19912.
- [901] J.C. Mason and P.C. Parks, Selection of neural network structures: some approximation theory guidelines, In: *Neural Network Applications in Control*, IEE Control Engineering Series 1995, pp. 67-90.
- [902] E. Matias and M.P. Machado, Random iterations of paracontraction maps and applications to feasibility problems, arXiv:2008.04831v1 (2020).
- [903] K.L. May, T. Stathaki and A.K. Katsaggelos, Spatially adaptive intensity bounds for image restoration, *EURASIP Journal on Applied Signal Processing*, 12 (2003) 1167-1180.
- [904] M. Mayer, *POCS-Methoden*, Ph.D. Thesis, Universität Wien, Austria, 2000.
- [905] S.F. McCormick, The methods of Kaczmarz and row orthogonalization for solving linear equations and least squares problems in Hilbert space, *Indiana Univ. Math. J.* 26 (1977) 1137-1150.
- [906] D. McKenzie, H. Heaton, Q. Li, S. Wu Fung, S. Osher, and W. Yin, Three-operator splitting for learning to predict equilibria in convex games, *SIAM J. Math. Data Sci.*, 6 (2024), 627-648.

- [907] W.D. McQuain, C.J. Ribbens and L.T. Watson, Preconditioned iterative methods for sparse linear algebra problems arising in circuit simulation, *Computers Math. Applic.*, 27 (1994) 25-45.
- [908] T. Meis, H. Lehmann and H. Michael, Application of the multigrid method to a nonlinear indefinite problem, in: *Multigrid Methods*, Lecture Notes in Mathematics, Vol. 960, Springer, 1982, pp. 545-557.
- [909] O. Melnyk, Stochastic amplitude flow for phase retrieval, its convergence and doppelgänger, arXiv:2212.04916v1 (2022).
- [910] Y. Meng and J.-M. Zuo, Three-dimensional nanostructure determination from a large diffraction data set recorded using scanning electron nanodiffraction, *IUCrJ* 3 (2016) doi:10.1107/S205225251600943X
- [911] K.-H. Meyn, Solution of underdetermined nonlinear equations by stationary iteration methods, *Numerische Mathematik*, 42 (1983) 161-172.
- [912] C.-Q. Miao and W.-T. Wu, On greedy randomized average block Kaczmarz method for solving large linear system, *Journal of Computational and Applied Mathematics*, 413 (2022), 114372.
- [913] W. Miao, V. Narayanan and J.-S. Li, Parallel residual projection: a new paradigm for solving linear inverse problems, *Scientific Reports*, (2020) 10:12846, <https://doi.org/10.1038/s41598-020-69640-5>.
- [914] D. Michalski, Y. Xiao, Y. Censor and J.M Galvin, The dose-volume constraint satisfaction problem for inverse treatment planning with field segments, *Phys. Med. Biol.*, 49 (2004) 601-616.
- [915] M.T. Middleton and H. Jiang, Geotomographic imaging using entropy as a convergence criterion, *IEEE Transactions on Industry Applications*, 28 (1992) 1154-1159.
- [916] A Miettinen, *Characterization of Three-Dimensional Microstructure of Composite Materials by X-ray Tomography*, Ph.D. Thesis, University of Jyväskylä, Finland, 2016.
- [917] J.J. Milek, *Stabilized Adaptive Forgetting in Recursive Parameter Estimation*, Ph.D. Thesis, Swiss Federal Institute of Technology, Zurich, Switzerland, 1995.
- [918] M. Mirzapour, A. Cegielski and T. Elfving, Convergence and semi-convergence of a class of constrained block iterative methods, *Numerical Functional Analysis and Optimization*, 42 (2021), 1718-1746.
- [919] M. Mirzapour and H. Rabbani, Investigation on accelerated ordered subsets image reconstruction techniques with superiorization methodology, *Eur. Phys. J. Plus*, 137:791 (2022), 12 pages.
- [920] K. Mishchenko, *On Seven Fundamental Optimization Challenges in Machine Learning*, Ph.D. Thesis, King Abdullah University of Science and Technology, Thuwal, Saudi Arabia (2021).
- [921] K. Mishchenko and P. Richtárik, A stochastic decoupling method for minimizing the sum of smooth and non-smooth functions, arXiv:1905.11535v1, 2019.
- [922] M. Möddel, C. Meins, J. Dieckhoff and T. Knopp, Viscosity quantification using multi-contrast magnetic particle imaging, *New J. Phys.*, 20 (2018), 083001.
- [923] G. Möller, *Reconstruction of 3D Wet Refractivity Fields in the Lower Atmosphere Along Bended GNSS Signal Paths*, Ph.D. Thesis, Vienna University of Technology, Vienna, Austria, 2017.
- [924] P.P. Moghaddam and F.J. Herrmann, Randomized full-waveform inversion: a dimensionality-reduction approach, 2010 SEG Annual Meeting, 17-22 October, Denver, Colorado.
- [925] F. Mohn, T. Knopp, M. Boberg, F. Thieben, P. Szwargulski and M. Graeser, System matrix based reconstruction for pulsed sequences in magnetic particle imaging, arXiv:2108.10073v1, 2021.
- [926] F. Mohn, P. Szwargulski, M.G. Kaul, M. Graeser, T. Mummert, K.M. Krishnan, T. Knopp, G. Adam, J. Salamon and C. Riedel, Real-time multi-contrast magnetic particle imaging for the detection of gastrointestinal bleeding, *Scientific Reports* (2023) 13:22976.
- [927] M. Mohr, C. Popa and U. Rüde, Some extensions of Cimmino's reflections algorithm to inconsistent least-squares problems, International Conference on Computational Linear Algebra with Applications, Milovy, Czech Republic, August 4-10, 2002 (*conference abstracts*).
- [928] D.M. Molitor, *Analytic Methods for Large-scale Data*, Ph.D. Thesis, University of California, Los Angeles, 2021.
- [929] J.D. Moorman, T.K. Tu, D. Molitor and D. Needell, Randomized Kaczmarz with averaging, *BIT Numerical Mathematics*, (2020) <https://doi.org/10.1007/s10543-020-00824-1>.
- [930] J.B. Morata, F.G. Conde, J.M.A. Guisado, J.M.B. Baviera and J.A. Otamendi, Low field slice-selective ZTE imaging of ultra-short T2 tissues based on spin-locking, *Research Square*, (2022), doi.org/10.21203/rs.3.rs-1952014/v1.

- [931] K. Morikuni and K. Hayami, Inner-iteration Krylov subspace methods for least squares problems, *SIAM. J. Matrix Anal. & Appl.*, 34 (2013) 1-22.
- [932] E. Morotti, *Reconstruction of 3D X-ray Tomographic Images from Sparse Data with TV-based Methods*, Ph.D. Thesis, Università degli Studi di Padova, Italy, 2018.
- [933] M.S. Morshed, ALS: Augmented Lagrangian sketching methods for linear systems, arXiv:2208.06152v1 (2022).
- [934] M.S. Morshed, Penalty & augmented Kaczmarz methods for linear systems & linear feasibility problems, arXiv:2205.08085v2 (2022).
- [935] M.S. Morshed, S. Ahmad and M.N. Alam, Stochastic steepest descent methods for linear systems: Greedy sampling & momentum, arXiv:2012.13087v1, 2020.
- [936] M.S. Morshed, S. Islam and M.N. Alam, Accelerated sampling Kaczmarz Motzkin algorithm for linear feasibility problem, arXiv:1902.03502v1, 2019.
- [937] M.S. Morshed and M.N. Alam, Heavy ball momentum induced sampling Kaczmarz Motzkin methods for linear feasibility problems, arXiv:2009.08251v1, 2020.
- [938] M.S. Morshed and M.N. Alam, Sketch & project methods for linear feasibility problems: Greedy sampling & momentum, arXiv:2009.08251v1, 2020.
- [939] M.S. Morshed, M.S. Islam and M.N. Alam, On generalization and acceleration of randomized projection methods for linear feasibility problems, arXiv:2002.07321v2, 2020.
- [940] Md. S. Morshed, Md. S. Islam and Md. Noor-E-Alam, Sampling Kaczmarz-Motzkin method for linear feasibility problems: generalization and acceleration, *Mathematical Programming* (2021) accepted manuscript, <https://doi.org/10.1007/s10107-021-01649-8>.
- [941] T.H. Mosbech, *Computed Tomography in the Modern Slaughterhouse*, Ph.D. Thesis, Technical University of Denmark, Kongens Lyngby, Denmark, 2011.
- [942] S. Mou and A. S. Morse, A fixed-neighbor, distributed algorithm for solving a linear algebraic equation, European Control Conference, Zürich, Switzerland, July 17-19, 2013, pp. 2269-2273.
- [943] A. Mouton, *On Artefact Reduction, Segmentation and Classification of 3D Computed Tomography Imagery in Baggage Security Screening*, Ph.D. Thesis, Cranfield University, Great Britain, 2014.
- [944] A. Mouton, N. Megherbi, K. Van Slambrouck, J. Nuyts and T.P. Breckon, An experimental survey of metal artefact reduction in computed tomography, *Journal of X-Ray Science and Technology*, 21 (2013) 193-226.
- [945] K. Mueller, *Fast and Accurate Three-Dimensional Reconstruction from Cone-Beam Projection Data Using Algebraic Methods*, Ph.D. Thesis, Ohio State University, Columbus, Ohio, USA, 1998.
- [946] K. Mueller, R. Yagel and J.J. Wheller, Fast and accurate projection algorithm for 3D cone-beam reconstruction with the Algebraic Reconstruction Technique (ART), SPIE Medical Imaging Conference, San Diego, Feb. 21-27, 1998.
- [947] K. Mueller, R. Yagel and J.J. Wheller, Accurate low-contrast 3D cone-beam reconstruction with algebraic methods, submission to *IEEE Transactions on Medical Imaging*, 1998.
- [948] K. Mueller, R. Yagel and J.J. Wheller, Anti-aliased three-dimensional cone-beam reconstruction of low-contrast objects with algebraic methods, Medical Imaging, *IEEE Trans. Med. Imaging*, 18 (1999) 519-537.
- [949] K. Mueller, R. Yagel and J.J. Wheller, Fast implementations of algebraic methods for 3D reconstruction from cone-beam data, *IEEE Trans. Med. Imaging*, 18 (1999) 538-548.
- [950] P.A. Muller, T. Li, D. Isaacson, J.C. Newell, G.J. Saulnier, T.-J. Kao and J. Ashe, Estimating a regional ventilation-perfusion index, *Physiol. Meas.*, 36 (2015) 1283-1295.
- [951] J.M. Muñoz-Ocaña, J. Puerto and A.M. Rodríguez-Chía, Improved heuristics for solving large-scale scanning transmission electron microscopy image segmentation using the ordered median problem, *Computers & Operations Research*, 163 (2024)106524.
- [952] A. Mustafa and M. Saha, A two-dimensional randomized extended Gauss-Seidel algorithm for solving least squares problems, *Numerical Algorithms* (2023), <https://doi.org/10.1007/s11075-023-01661-3>
- [953] A. Mustafa and M. Saha, Maximal residual extended Kaczmarz and Gauss-Seidel methods-convergence properties and applications, arXiv:2404.09448v1 (2024).
- [954] J. Mycielski and S. Świerczkowski, Uniform approximation with linear combinations of reproducing kernels, *Studia Mathematica* 121 (1996) 105-114.

- [955] M.Z. Nashed, Continuous and semicontinuous analogues of iterative methods of Cimmino and Kaczmarz with applications to the inverse Radon transform. Mathematical aspects of computerized tomography, in: G.T. Herman, F. Natterer (Eds.), *Mathematical Aspects of Computerized Tomography*, Proceedings, Oberwolfach, February 10-16, 1980, Lecture Notes in Med. Inform., 8, Springer, Berlin, 1981, pp. 160-178.
- [956] M.A. Nassiri, *Les algorithmes de haute résolution en tomographie d'émission par positrons: développement et accélération sur les cartes graphiques*, Ph.D. Thesis, Université de Montréal, Canada, 2015.
- [957] F. Natterer, Numerical methods in tomography, *Acta Numerica*, 8 (1999) 107–141.
- [958] F. Natterer and E.L. Ritman, Past and future directions in X-ray computed tomography (CT), *International Journal of Imaging Systems and Technology*, 12 (2002) 175-187.
- [959] L. Nawwas, M. Grosser, M. Möddel and T. Knopp, Accelerated Kaczmarz for convergence speed-up in multi-contrast magnetic particle imaging, *International Journal on Magnetic Particle Imaging*, 8 (2022), Article ID 2203022, 4 Pages.
- [960] I. Necoara, Faster randomized block Kaczmarz algorithms, arXiv:1902.09946v1 (2019).
- [961] I. Necoara, Stochastic block projection algorithms with extrapolation for convex feasibility problems, *Optimization Methods and Software*, (2022), doi.org/10.1080/10556788.2021.1998492.
- [962] I. Necoara and A. Nedić, Minibatch stochastic subgradient-based projection algorithms for solving convex inequalities, arXiv:1909.11924v1, 2019.
- [963] I. Necoara and A. Nedić, Minibatch stochastic subgradient-based projection algorithms for feasibility problems with convex inequalities, *Computational Optimization and Applications*, 80 (2021), 121–152.
- [964] I. Necoara, P. Richtarik and A. Patrascu, Randomized projection methods for convex feasibility problems: conditioning and convergence rates, *SIAM J. Optim.*, 29 (2019), 2814–2852..
- [965] D. Needell, *Topics in Compressed Sensing*, Ph.D. Thesis, University of California, Davis, USA, 2009.
- [966] D. Needell, Randomized Kaczmarz solver for noisy linear systems, *BIT Numerical Mathematics*, 50 (2010) 395-403.
- [967] D. Needell, N. Srebro and R. Ward, Stochastic gradient descent, weighted sampling, and the randomized Kaczmarz algorithm, *Mathematical Programming*, 155 (2016), 549–573.
- [968] D. Needell and J.A Tropp, Paved with good intentions: analysis of a randomized block Kaczmarz method, *Linear Algebra Appl.*, 441 (2014) 199-221.
- [969] D. Needell and R. Ward, Two-subspace projection method for coherent overdetermined systems, *J. Fourier Anal. Appl.*, 19 (2013) 256-269.
- [970] D. Needell, R. Ward and N. Srebro, Stochastic gradient descent, weighted sampling, and the randomized Kaczmarz algorithm, *Advances in Neural Information Processing Systems*, 27 (2014) (6 pp.).
- [971] D. Needell, R. Zhao and A. Zouzias, Randomized block Kaczmarz method with projection for solving least squares, *Linear Algebra Appl.*, 484 (2015) 322-343.
- [972] A. Netyanun and D.C. Solmon, Iterated products of projections in Hilbert space, *American Mathematical Monthly*, 113 (2006) 644-648.
- [973] N.X. Nguyen, *Numerical Algorithms for Image Superresolution*, Ph.D. Thesis, Stanford University, CA, USA, 2000.
- [974] N. Nguyen, D. Needell and T. Woolf, Linear convergence of stochastic iterative greedy algorithms with sparse constraints, *IEEE Transactions on Information Theory*, 63 (2017), 6869–6895.
- [975] A. Nicola, S. Petra, C. Popa and C. Schnörr, A general extending and constraining procedure for linear iterative methods, *International Journal of Computer Mathematics*, 89 (2012) 231-253.
- [976] A. Nicola and C. Popa, Kaczmarz Extended versus augmented system solution in image reconstruction, Technical Report, Ovidius University of Constanta, Romania, 2010.
- [977] A. Nicola, C. Popa and C. Råde, Projection algorithms with correction, *J. Appl. Math. & Informatics*, 29 (2011) 697-712.
- [978] S.F. Nielsen, F. Beckmann, R.B. Godiksen, K. Haldrup, H.F. Poulsen and J.A. Wert, Measurement of the components of plastic displacement gradients in three dimensions, Proc. SPIE 5535, Developments in X-Ray Tomography IV, 485 (2004).
- [979] W. Niethammer, Iterative solution of non-symmetric systems of linear equations, in: *Numerical Mathematics*, International Series of Numerical Mathematics, 86, Springer, Singapore, 1988, pp. 381-390.
- [980] T Nikazad, *Algebraic Reconstruction Methods*, Ph.D. Thesis, Linköping University, Linköping, Sweden, 2008.

- [981] 47. T. Nikazad, R. Davidi and G.T. Herman, Accelerated perturbation-resilient block-iterative projection methods with application to image reconstruction, *Inverse Problems*, 28 (2012) 035005 (19pp).
- [982] T. Nikazad and M. Karimpour, Column-oriented algebraic iterative methods for nonnegative constrained least squares problems, *Numerical Algorithms*, (2020) doi.org/10.1007/s11075-020-00932-7 (published online)
- [983] T. Nikazad, M. Karimpour and M. Abbasi, Notes on flexible sequential block iterative methods, *Computers and Mathematics with Applications*, 76 (2018) 1321–1332.
- [984] Nirvikar and R. Singh, Reconstruction with parallel projections using ART, *International Journal of Computer Applications*, 13 (2011) 36-39.
- [985] Y.-Q. Niu and B. Zheng, A greedy block Kaczmarz algorithm for solving large-scale linear systems, *Applied Mathematics Letters*, 104 (2020) 106294.
- [986] Y.Q. Niu and B. Zheng, A randomized sparse Kaczmarz solver for sparse signal recovery via minimax-concave penalty, *Mathematical Methods in the Applied Sciences*, (2024) https://doi.org/10.1002/mma.9927.
- [987] Y.-Q. Niu and B. Zheng, Average block column action methods for solving least squares problems, *Journal of Applied Mathematics and Computing* (2024), https://doi.org/10.1007/s12190-024-02060-0.
- [988] J. Norberg, *Bayesian Approach to Ionospheric Imaging with Gaussian Markov Random Field Priors*, Ph.D. Thesis, University of Helsinki, Finland, 2020.
- [989] G. Nolet (Ed.), *Seismic Tomography with Applications in Global Seismology and Exploration Geophysics*, D. Reidel Publishing Company, Dordrecht, Holland, 1987.
- [990] E.A. Nurminskii, A parallel method of projection onto the convex hull of a family of sets, (in Russian), *Izv. Vyssh. Uchebn. Zaved. Mat.*, (2003), no. 12, 78–82. English translation in *Russian Math. (Iz. VUZ)*, 47 (12) (2004) 74-78.
- [991] E. A. Nurminski, Single-projection procedure for linear optimization, *J. Glob. Optim.*, 66, (2016), 95–110.
- [992] E. Nurminski and R. Tarasov, Linear optimization by conical projection, arXiv:2309.03361v1 (2023).
- [993] J. Nutini, *Greed is Good. Greedy Optimization Methods for Large-Scale Structured Problems*, Ph.D. Thesis, University of British Columbia, Vancouver, Canada, 2018.
- [994] S. O’Driscoll, J.G. Murphy and N.J. Smith, Computed tomography of air pollutants in street canyons, Proc. SPIE 4876, Opto-Ireland 2002: Optics and Photonics Technologies and Applications, 958 (2003). doi:10.1117/12.463985
- [995] D.P. O’Leary, Iterative methods for finding the stationary vector for Markov chains, IMA Preprint Series #932 (1992) 1-10.
- [996] E.F Oliveira, *Reconstrução Tomográfica com Superfícies B-splines*, Ph.D. Thesis, Universidade Federal de Pernambuco, Recife, Brazil, 2011.
- [997] E.F. Oliveira, S.B. Melo, C. C. Dantas, Í.V. Mota and M. Lira, Tomographic reconstruction with B-splines surfaces, International Nuclear Atlantic Conference, Belo Horizonte, MG, Brazil, October 24-28, 2011.
- [998] E.F. Oliveira, S.B. Melo, C. C. Dantas, D.A.A. Vasconcelos and L.F. Cadiz, Comparison among tomographic reconstruction algorithms with a limited data, 2011 International Nuclear Atlantic Conference - INAC 2011, Belo Horizonte, MG, Brazil, October 24-28, 2011.
- [999] J.M. de Oliveira, Project, construction and test of a mini computerized tomograph, *Brazilian Journal of Physics*, 33 (2003) 273-275.
- [1000] P.R. Oliveira, A strongly polynomial-time algorithm for the strict homogeneous linear-inequality feasibility problem, *Math. Meth. Oper. Res.*, 80 (2014) 267-284.
- [1001] A.H. Olson, A Chebyshev condition for accelerating convergence of iterative tomographic methods - solving large least-squares problems, *Physics of the Earth and Planetary Interiors*, 47 (1987) 333-345.
- [1002] O.A. Omer, H. Wojtczyk and T.M. Buzug, Simultaneous reconstruction and resolution enhancement for magnetic particle imaging, *IEEE Transactions on Magnetics*, 51 (2015) 6500804 (4 pp).
- [1003] A.M.T. Opie, *Contributions to Spectral CT*, Ph.D. Thesis, University of Canterbury, Christchurch, New Zealand, 2013.
- [1004] W. Orlicz, Stefan Kaczmarz (1895-1939), *Wiadomości Matematyczne*, 26 (1985) 155-164.
- [1005] P. Oswald and W. Zhou, Convergence analysis for Kaczmarz-type methods in a Hilbert space framework, *Linear Algebra Appl.*, 478 (2015) 131–161.

- [1006] N. Ottavy, Strong convergence of projection-like methods in Hilbert spaces, *Journal of Optimization Theory and Applications*, 56 (1988) 433-461.
- [1007] A. Oukili, *Reconstruction statistique 3D à partir d'un faible nombre de projections: application: coronarographie RX rotationnelle*, Ph.D. Thesis, Université Rennes 1, France, 2016.
- [1008] A. Pan, *X-ray Phase Contrast Imaging of Preclinical Atherosclerosis*, Ph.D. Thesis, MIT, Cambridge, MA, USA, 2016.
- [1009] J. Pang, Set intersection problems: Integrating projection and quadratic programming algorithms, arXiv:1307.0053v3 (2015).
- [1010] W.M. Pang, J. Qin, Y. Lu, Y. Xie, C.K. Chui and P.-A. Heng, Accelerating simultaneous algebraic reconstruction technique with motion compensation using CUDA-enabled GPU, *International Journal of Computer Assisted Radiology and Surgery*, 6 (2011) 187-199.
- [1011] P.K. Panigrahi and K. Muralidhar, Principles of tomography, in: *Schlieren and Shadowgraph Methods in Heat and Mass Transfer*, Part of the series Springer Briefs in Applied Sciences and Technology, Springer, 2012, pp. 63-100.
- [1012] C.D. Papadaniil and L.J. Hadjileontiadis, Tomographic reconstruction of 3-D irrotational vector fields via a discretized ray transform, *J. Math. Imaging. Vis.*, 52 (2015) 285-302.
- [1013] P.C. Parks and J. Militzer, A comparison of five algorithms for the training of CMAC memories for learning control systems, *Automatica*, 28 (1992) 1027-1035.
- [1014] P.C. Parks, S. Kaczmarz (1895-1939), *Intern. Journal of Control*, 57 (1993) 1263-1267.
- [1015] F. Pasqualetti, R. Carli and F. Bullo, Distributed estimation via iterative projections with application to power network monitoring, *Automatica*, 48 (2012) 747-758.
- [1016] F Pasqualetti, *Secure Control Systems: A Control-Theoretic Approach to Cyber-Physical Security*, Ph.D. Thesis, University of California, Santa Barbara, CA, USA, 2012.
- [1017] V. Patel, M. Jahangoshahi and D.A. Maldonado, Randomized block adaptive linear system solvers, arXiv:2204.01653v1 (2022).
- [1018] V. Patel, M. Jahangoshahi and D.A. Maldonado, Convergence of adaptive, randomized, iterative linear solvers, arXiv:2104.04816v1 (2021).
- [1019] M. Patwari, R. Gutjahr, R. Raupach and A. Maier, JBFnet-Low dose CT denoising by trainable joint bilateral filtering, In: A.L. Martel et al. (eds), *Medical Image Computing and Computer Assisted Intervention – MICCAI 2020*. Lecture Notes in Computer Science, vol 12262. Springer, Cham, 2020.
- [1020] M. Patwari, R. Gutjahr, R. Raupach and A. Maier, Limited parameter denoising for low-dose X-ray computed tomography using deep reinforcement learning, *Medical Physics* (2022) 1–14, DOI: 10.1002/mp.15643.
- [1021] P.A. Penczek, Fundamentals of three-dimensional reconstruction from projections, *Methods Enzymol.*, 482 (2010) 1–33.
- [1022] S.N. Penfold, *Image Reconstruction and Monte Carlo Simulations in the Development of Proton Computed Tomography for Applications in Proton Radiation Therapy*, Ph.D. Thesis, University of Wollongong, Australia, 2010.
- [1023] S. Penfold and Y. Censor, Techniques in iterative proton CT image reconstruction, *Sensing and Imaging*, 16 (2015). DOI:10.1007/s11220-015-0122-3
- [1024] S.N. Penfold, R.W. Schulte, Y. Censor, V. Bashkirov, S. McAllister, K.E. Schubert and A.B. Rosenfeld, Block-iterative and string-averaging projection algorithms in proton computed tomography image reconstruction, in: Y. Censor, M. Jiang, G. Wang (Eds.), *Biomedical Mathematics: Promising Directions in Imaging, Therapy Planning and Inverse Problems*, Medical Physics Publishing, Madison, WI, USA, 2010, pp. 347-367.
- [1025] L. Peng, P.V. Giampouras and R. Vidal, The ideal continual learner: An agent that never forgets, Proceedings of the 40th International Conference on Machine Learning, Honolulu, Hawaii, USA. PMLR 202, (2023).
- [1026] L.P. Perlin and R.C. de Andrade Pinto, Use of network theory to improve the ultrasonic tomography in concrete, *Ultrasonics*, 96 (2019), 185-195.
- [1027] S. Petra and C. Popa, Single projection Kaczmarz extended algorithms, *Numerical Algorithms*, 73 (2016), 791–806.
- [1028] S. Petra, C. Popa and S. Schnörr, Extended and Constrained Cimmino-type Algorithms with Applications in Tomographic Image Reconstruction, University Heidelberg, Technical Report, 2008.
- [1029] S. Petra, A. Schröder and C. Schnörr, 3D tomography from few projections in experimental fluid dynamics, iIn: W. Nitsche, C. Dobriloff (Eds.) *Imaging Measurement Methods for Flow Analysis*, Springer, Berlin 2009, pp. 63-72.

- [1030] M. Pham, *New Algorithms in Computational Microscopy*, Ph.D. Thesis, University of California, Los Angeles, USA, 2020.
- [1031] C. Phatak and D. Gürsoy, Iterative reconstruction of magnetic induction using Lorentz transmission electron tomography, *Ultramicroscopy*, 150 (2015) 54-64.
- [1032] A. De Pierro and A.N. Iusem, On the asymptotic behavior of some alternate smoothing series expansion iterative methods, *Linear Algebra Appl.*, 130 (1990) 3-24.
- [1033] C. Pintavirooj and M. Sangworasil, Improve 3D visualization from radiograph for C-arm X-ray apparatus using SART, *Journal of Applied Biomedical Engineering*, 1 (2008) 27-33.
- [1034] C.-M. Pintea and C. Ticala, Medical image processing: A brief survey and a new theoretical hybrid ACO model, *Combinations of Intelligent Methods and Applications*, Volume 46 of the series Smart Innovation, Systems and Technologies, 2016, pp. 117-134.
- [1035] G. Piovan, I. Shames, B. Fidan, F. Bullo and B.D.O. Anderson, On frame and orientation localization for relative sensing networks, *Automatica*, 49 (2013) 206-213.
- [1036] R.G. Pires, D.R. Pereira, L.A.M. Pereira, A.F. Mansano and J.P. Papa, Projections onto convex sets parameter estimation through harmony search and its application for image restoration, *Nat. Comput.* (2015) 1-10. DOI 10.1007/s11047-015-9507-4.
- [1037] E. Plenge, D.H.J. Poot, M. Bernsen, G. Kotek, G. Houston, P. Wielopolski, L. van der Weerd, W.J. Niessen and E. Meijering, Super-resolution methods in MRI: Can they improve the trade-off between resolution, signal-to-noise ratio, and acquisition time?, *Magnetic Resonance in Medicine*, 68 (2012) 1983-1993.
- [1038] J. Plesniak, Finding the orthogonal projection of a point onto an affine subspace, *Linear Algebra Appl.*, 422 (2007) 455-470.
- [1039] M. Pleszczyński, Implementation of the computer tomography parallel algorithms with the incomplete set of data, *PeerJ Comput. Sci.* 7:e339 (2021) DOI 10.7717/peerj-cs.339.
- [1040] C.I. Podlichuk, Signal recovery from partial information, In: V. K. Madisetti, D. B. Williams (Eds.), *Digital Signal Processing (DSP) Handbook*, CRC Press & IEEE Press, Boca Raton, FL, 1998.
- [1041] C.I. Podilchuk and R.J. Mammone, A comparison of projection techniques for image restoration, *Proc. SPIE 1075, Digital Image Processing Applications*, 303 (1989). doi:10.1117/12.952658
- [1042] C.I. Podilchuk and R.J. Mammone, Image recovery by convex projections using a least-squares constraint, *Journal of the Optical Society of America A*, 7 (1990) 517-521.
- [1043] A.G. Polak, J. Mroczka and D. Wyszczanski, Tomographic image reconstruction via estimation of sparse unidirectional gradients, *Computers in Biology and Medicine*, 81 (2017) 93-105.
- [1044] A. Polar and M. Poluektov, Canonical block-oriented model, arXiv:1909.13429v1, 2019.
- [1045] A. Polar and M. Poluektov, Urysohn operators as adaptive filters, arXiv:2001.04652v1, 2020.
- [1046] A. Polar and M. Poluektov, Urysohn forest for aleatoric uncertainty quantification, arXiv:2104.01714v1 (2021).
- [1047] A. Polat, Comprehensive analysis of alpha-parametric set for the calculation of intersection lengths of radiological ray path in Siddon's algorithm used in 3D image reconstruction, *Journal of Advanced Research in Natural and Applied Sciences*, 7 (2021), 172-181.
- [1048] A. Polat and D. Göktürk, An alternative approach to tracing the volumic proliferation development of an entire tumor spheroid in 3D through a mini-opto tomography platform, *Micron*, 152, (2021), 103173.
- [1049] A. Polat, S. Hassan, I. Yildirim, L.E. Oliver, M. Mostafaei, S. Kumar, S. Maharjan, L. Bourguet, X. Cao, G. Ying, M.E. Hesar and Y.S. Zhang, A miniaturized optical tomography platform for volumetric imaging of engineered living systems, *Lab on a Chip*, (2019) DOI: 10.1039/c8lc01190g
- [1050] A. Polat, N. Matela, A. Dinler, Y.S. Zhang and I. Yildirim, Digital breast tomosynthesis imaging using compressed sensing based reconstruction for 10 radiation doses real data, *Biomedical Signal Processing and Control*, 48 (2019), 26-34.
- [PI18] A. Polat and I. Yildirim, An iterative reconstruction algorithm for digital breast tomosynthesis imaging using real data at three radiation doses, *Journal of X-Ray Science and Technology*, 26 (2018), 347-360.
- [1051] J.W. Polderman, A state space approach to the problem of adaptive pole assignment, *Mathematics of Control, Signals and Systems*, 2 (1989) 71-94.
- [1052] M. Poluektov and A. Polar, A new iterative method for construction of the Kolmogorov-Arnold representation, arXiv:2305.08194v1 (2023).

- [1053] B.T. Polyak, Random algorithms for solving convex inequalities, In: *Inherently Parallel Algorithms in Feasibility and Optimization and their Application*, D. Butnariu, Y. Censor, S. Reich (Eds.) Studies in Computational Mathematics, 8 (Elsevier Science Publishers, Amsterdam) 409-422, 2001.
- [1054] B. Polyak and P. Shcherbakov, Randomization in robustness, estimation, and optimization. In: Başar T. (eds) *Uncertainty in Complex Networked Systems*. Systems & Control: Foundations & Applications. Birkhäuser, Cham, 2018, pp. 181-208.
- [1055] I. Pomparău and C. Popa, Supplementary projections for the acceleration of Kaczmarz algorithm, *Applied Mathematics and Computation*, 232 (2014) 104-116.
- [1056] C. Popa, An extension of Kaczmarz's projections method with relaxation parameter to inconsistent and rank deficient least-squares problems, Technical Report, 1996.
- [1057] C. Popa, Successive orthogonal projections for exact computation of minimal norm solution of inconsistent and rank deficient least-squares problems, Technical Report, 1996.
- [1058] C. Popa, Characterization of the solutions set of least squares problems by an extension of Kaczmarz's method, Technical Report, 1997.
- [1059] C. Popa, Extensions of block-projections methods with relaxation parameters to inconsistent and rank-deficient least-squares problems, *BIT Numerical Mathematics*, 38 (1998) 151-176.
- [1060] C. Popa, On some extensions of Kaczmarz's projection method, Technical Report, 1998.
- [1061] C. Popa, Characterization of the solutions set of inconsistent least-squares problems by an extended Kaczmarz algorithm, *Korean J. Comput. & Appl. Math.*, 6 (1999) 51-64.
- [1062] C. Popa, Kaczmarz's algorithm – extensions and preconditioning, *Advanced Modeling and Optimization*, 2 (2000) 70-78.
- [1063] C. Popa, A fast Kaczmarz-like solver for linear least squares problems, *ZAMM* 80, 2000 (*conference abstracts*).
- [1064] C. Popa, Direct and iterative Kaczmarz-like solvers, *Analele Universității din Timișoara*, 40 (2002) 107-125.
- [1065] C. Popa, Extended Kaczmarz-like methods with oblique projections, *GAMM 2002 (conference abstracts)*.
- [1066] C. Popa, *Iterative Methods for Linear Least-Squares Problems*, Monografii Matematice 77, Universitatea de Vest Timișoara, Timișoara, 2003.
- [1067] C. Popa, A hybrid Kaczmarz – conjugate gradient algorithm, *Technical Report*, Univ. Erlangen, 2007.
- [1068] C. Popa, On Cimmino's reflection algorithm, Proceedings of the Romanian Academy, Series A – Mathematics, Physics, Technical Sciences, Information Science, 9 (2008) 13-19.
- [1069] C. Popa, A hybrid Kaczmarz – conjugate gradient algorithm for image reconstruction, *Mathematics and Computers in Simulation*, 80 (2010), 2272-2285.
- [1070] C. Popa, Convergence rates for Kaczmarz-type algorithms, *Numerical Algorithms*, 79 (2018), 1–17.
- [1071] C. Popa and R. Zdunek, Kaczmarz extended algorithm for tomographic image reconstruction from limited data, *Mathematics and Computers in Simulation*, 65 (2004) 579-598.
- [1072] H.F. Poulsen, A six-dimensional approach to microtexture analysis, *Philos. Mag.*, 83 (2003) 2761-2778.
- [1073] H.F. Poulsen, Orientation mapping, In: *Three-Dimensional X-Ray Diffraction Microscopy*, Springer Tracts in Modern Physics, Vol. 205, Springer, 2004, pp. 51-72.
- [1074] H.F. Poulsen and X.W. Fu, Generation of grain maps by an algebraic reconstruction technique, *J. Appl. Cryst.*, 36 (2003) 1062-1068.
- [1075] M. Prangprakhon and N. Nimana, Extrapolated sequential constraint method for variational inequality over the intersection of fixed-point sets, arXiv:2006.16217v1 (2020).
- [1076] S.W.T. Price, D.J. Martin, A.D. Parsons, W.A. Sławiński, A. Vamvakeros, S.J. Keylock, A.M. Beale and J. F.W. Mosselmanns, Chemical imaging of Fischer-Tropsch catalysts under operating conditions, *Science Advances*, 3 (2017) e1602838.
- [1077] M. Prümmer, *Cardiac C-Arm Computed Tomography: Motion Estimation and Dynamic Reconstruction*, Ph.D. Thesis, University of Erlangen–Nuremberg, Germany, 2009.
- [1078] M. Prümmer, H. Köstler, U. Råde and J. Hornegger, A full multigrid technique to accelerate an ART scheme for tomographic image reconstruction, Technical Report, University of Erlangen–Nuremberg, 2005.
- [1079] D.S. Pruzan, A.E. Caruso, Y. Liu, Y. Lin, C. Beall, I. Repins, M.F. Toney and M.A. Scarpulla, Sub-100 nm resolution 3-D tomography of CZTSe using transmission X-ray microscopy, 42nd IEEE Photovoltaic Specialist Conference, New Orleans, LA, 14-19 June 2015, pp. 1-5.

- [1080] P. Purkait and B. Chanda, Morphologic gain-controlled regularization for edge-preserving super-resolution image reconstruction, *Signal, Image and Video Processing*, 7 (2013), 925-938.
- [1081] L.D. Pyle, A generalized inverse epsilon-algorithm for constructing intersection projection matrices with applications, *Numerische Mathematik*, 10 (1967), 86-102.
- [1082] P. Qiu, *Automated Data Processing and Numerical Methods for Travel-Time Based Hydraulic Tomography*, Ph.D. Thesis, Universität Göttingen, Germany, 2020.
- [1083] P. Qiu, R. Hu, L. Hu, Qu. Liu, Y. Xing, H. Yang, J. Qi and T. Ptak, A numerical study on travel time based hydraulic tomography using the SIRT algorithm with Cimmino iteration, *Water*, 11 (2019) 909, 19 pages.
- [1084] W. Qiu, T. Pengpan, N.D. Smith and M. Soleimani, Evaluating iterative algebraic algorithms in terms of convergence and image quality for cone beam CT, *Computer Methods and Programs in Biomedicine*, 109 (2013) 313-322.
- [1085] J. Qranfal, *Optimal Recursive Estimation Techniques for Dynamic Medical Image Reconstruction*, Ph.D. Thesis, Simon Fraser University, Burnaby, BC, Canada, 2009.
- [1086] J.C. Rabelo, Y. Saporito and A. Leitão, On randomized Kaczmarz type methods for solving large scale systems of ill-posed equations, *Signal Processing*, 6 (2020) 34 pages.
- [1087] T. Rahman, *Desain Antena Array pada Detektor Posisi Berbasis Wi-Fi Smartphone Tomography*, Ph.D. Thesis, Universitas Jember, Indonesia, 2019.
- [1088] G. Ramachandran, D. Leith and L. Todd, Extraction of spatial aerosol distributions from multispectral light extinction measurements with computed-tomography, *Journal of the Optical Society of America A*, 11 (1994) 144-154.
- [1089] A.K. Ramdas, *Computational and Statistical Advances in Testing and Learning*, Ph.D. Thesis, Carnegie Mellon University, Pittsburgh, PA, USA, 2015.
- [1090] R. Ramlau, A. Obereder, M. Rosensteiner and D. Saxenhuber, Efficient iterative tip/tilt reconstruction for atmospheric tomography, *Inverse Problems in Science and Engineering*, 22 (2014) 1345-1366.
- [1091] R. Ramlau and M. Rosensteiner, An efficient solution to the atmospheric turbulence tomography problem using Kaczmarz iteration, *Inverse Problems*, 28 (2012) 095004 (23 pp).
- [1092] L.M.H. Ramos, *Aceleración de los Métodos de Proyecciones Alternantes para Problemas de Asignación de Autovalores*, Ph.D. Thesis, Universidad Central de Venezuela, 2011.
- [1093] D.J. Randall-Barrot, *An Algebraic Reconstruction Technique (ART) for the Synthesis of Three-dimensional Models of Particle Aggregates from Projective Representations*, Ph.D. Thesis, Rowan University, Glassboro, NJ, USA, 2005.
- [1094] E. Rebrova and D. Needell, On block Gaussian sketching for the Kaczmarz method, *Numerical Algorithms*, 86 (2021), 443-473.
- [1095] E. Rebrova and D. Needell, New bounds for the block Gaussian sketch and project method, Technical Report, Department of Mathematics, University of California, Los Angeles, California, 2021.
- [1096] B. Recht and C. Ré, Beneath the valley of the noncommutative arithmetic-geometric mean inequality: conjectures, case-studies, and consequences, arXiv:1202.4184v1 (2012).
- [1097] S. Reich and R. Zalas, A modular string averaging procedure for solving the common fixed point problem for quasi-nonexpansive mappings in Hilbert space, *Numerical Algorithms*, 72 (2016), 297-323.
- [1098] M.R. Reis, *Investigating the Impact of Beam and Target Parameters in Particle Imaging*, Ph.D. Thesis, Universidade de Lisboa, Portugal, 2020.
- [1099] J. Richalet and J. Papon, Industrial Applications of internal model control, In: M. Paul (Ed.), *Digital Computer Applications to Process Control*, Proceedings of the 7th IFAC/IFIP/IMACS Conference, Vienna, Austria (1985).
- [1100] J. Richalet, A. Rault, J.L. Testud and J. Papon, Model predictive heuristic control – applications to industrial processes, *Automatica*, 14 (1978) 413-428.
- [1101] J. Rieger, Generalized Gearhart-Koshy acceleration for the Kaczmarz method, arXiv:2201.10118v1 (2022).
- [1102] U. van Rienen, *Numerical Methods in Computational Electrodynamics. Linear Systems in Practical Applications*, Springer, Berlin, 2001.
- [1103] U. van Rienen and T. Weiland, Impedance calculation above cut-off with URMEL-I, Proceeding of the First European Particle Accelerator Conference (EPAC 88), 1988, World Scientific (1988) 890-892
- [1104] U. van Rienen and T. Weiland, Impedance calculation with URMEL-I using multigrid methods, *IEEE Transactions on Magnetics*, 26 (1990) 743-746.

- [1105] M.M. al-Rifaie and T. Blackwell, Binary tomography reconstruction by particle aggregation, in: *Applications of Evolutionary Computation*, Lecture Notes in Computer Science 9597 (2016) pp. 754-769.
- [1106] M. M. al-Rifaie and T. Blackwell, Swarm led tomographic reconstruction, GECCO '22, July 9–13, 2022, Boston, MA, USA.
- [1107] V.C. Rodrigues and T. Abrão, On Kaczmarz signal processing technique in massive MIMO, arXiv:1904.04376v1, 2019.
- [1108] V.C. Rodrigues, J.C.M.Filho and T. Abrão, Randomized Kaczmarz algorithm for massive MIMO systems with channel estimation and spatial correlation, *Int. J. Commun. Syst.*, e4158 (2019), 21 pages.
- [1109] V.C. Rodrigues, J.C.M. Filho and T. Abrão, Kaczmarz precoding and detection for massive MIMO systems, 2019 IEEE Wireless Communications and Networking Conference (WCNC).
- [1110] J. Roerdink, Computerized tomography and its applications: a guided tour, *Nieuw Archief voor Wiskunde*, 10 (1992) 277-308.
- [1111] M. Romanov, A.B. Dahl, Y. Dong and P.C. Hansen, Relaxed simultaneous tomographic reconstruction and segmentation with class priors for Poisson noise, Technical Report, Technical University of Denmark, 2015.
- [1112] K.B. Rosa, J.C. Marinello and T. Abrão, Low-complexity Kaczmarz precoding in DL massive MIMO with partial CSI and correlation, *Physical Communication*, 37 (2019) 100902.
- [1113] A. Rosenfeld and A.C. Kak, *Digital Picture Processing*, Academic Press, New York, 1982.
- [1114] M. Rosensteiner and R. Ramlau, Kaczmarz algorithm for multiconjugated adaptive optics with laser guide stars, *Journal of the Optical Society of America A*, 30 (2013) 1680-1686.
- [1115] D.M. Rouse, *Estimation of Finite Mixture Models*, Ph.D. Thesis, North Carolina State University, Raleigh, NC, USA, 2005.
- [1116] O.G. Rudenko and A.A. Bessonov, Real-time identification of nonlinear time-varying systems using radial basis, *Cybernetics and Systems Analysis*, 39 (2003) 927-934.
- [1117] J.C. Ryan, D.D. Ross, J. Murakowski, G.J. Schneider and D.W. Prather, Kalman filter accelerated K-space tomography, *Journal of Lightwave Technology*, 2018, DOI 10.1109/JLT.2018.2883871.
- [1118] T. Rymarczyk, M. Gołabek, P. Bożek, P. Adamkiewicz, M. Maj and J. Sikora, The prototype ultrasound tomography device to analyze the properties of processes, 2018 Applications of Electromagnetics in Modern Techniques and Medicine (PTZE), DOI: 10.1109/PTZE.2018.8503197.
- [1119] T. Rymarczyk, M. Gołabek, P. Bożek, P. Adamkiewicz, M. Maj and J. Sikora, Ultrasound tomography measuring system for acquisition and analysis data, *Przeegląd Elektrotechniczny*, 95 (2019) 111-114.
- [1120] T. Rymarczyk, M. Gołabek, P. Lesiak, A. Marciniak and M. Guzik, Construction of an ultrasonic tomograph for analysis of technological processes in the field of reflection and transmission waves, *Informatyka, Automatyka, Pomiary w Gospodarce i Ochronie Środowiska* 4 (2019) 43-47.
- [1121] T. Rymarczyk, M. Gołabek, T. Cieplak, K. Kania and P. Adamkiewicz, Ultrasonic tomography for reflection and transmission wave analysis, *Przeegląd Elektrotechniczny*, 96 (2020), 170-173.
- [1122] T. Rymarczyk and J. Sikora, Optimization approach for image forming in ultrasound transmission tomography (UTT): Real data case, *Mathematical Problems in Engineering* (2019), Article ID 9126136, 11 pages.
- [1123] T. Rymarczyk, J. Sikora and P. Adamkiewicz, Effective algorithm for tomography imaging in three-dimensional problems, *Przeegląd Elektrotechniczny*, 95 (2019) 115-118.
- [1124] T. Rymarczyk, J. Sikora, P. Adamkiewicz and K. Polakowski, Effective ultrasound and radio tomography imaging algorithm for three-dimensional problems, 2018 Applications of Electromagnetics in Modern Techniques and Medicine (PTZE), DOI: 10.1109/PTZE.2018.8503259
- [1125] T. Rymarczyk, J. Sikora, K. Polakowski and P. Adamkiewicz, Efektywny algorytm obrazowania w tomografii ultradźwiękowej i radiowej dla zagadnień dwuwymiarowych, *Przeegląd Elektrotechniczny*, 94 (2018), 62-69, doi:10.15199/48.2018.06.1.
- [1126] E.K. Ryu, R. Hannah and W. Yin, Scaled relative graph: Nonexpansive operators via 2D Euclidean geometry, arXiv:1902.09788v1 (2019).
- [1127] Y. Saad, *Iterative Methods for Sparse Linear Systems*, Second Edition, SIAM, Philadelphia, 2003.
- [1128] Y. Saad, Iterative methods for linear systems of equations: A brief historical journey, arXiv:1908.01083v1, 2019.

- [1129] Y. Saad and H.A. van der Vorst, Iterative solution of linear systems in the 20th century, *Journal of Computational and Applied Mathematics*, 123 (2000), 1–33.
- [1130] H.A. Sabbagh, R.K. Murphy, E.H. Sabbagh, J.C. Aldrin and J.S. Knopp, *Computational Electromagnetics and Model-Based Inversion*, Springer, New York, 2013.
- [1131] K. Sabelfeld, Stochastic algorithms in linear algebra - beyond the Markov chains and von Neumann–Ulam scheme, in: *Numerical Methods and Applications*, Lecture Notes in Computer Science, 6046, Springer, Berlin, 2011, pp 14-28.
- [1132] K.K. Sabelfeld, Stochastic boundary methods of fundamental solutions for solving PDEs, *Engineering Analysis with Boundary Elements*, 36 (2012) 1092-1103.
- [1133] K.K. Sabelfeld, A stochastic spectral projection method for solving PDEs in domains composed by overlapping discs, spheres, and half-spaces, *Applied Mathematics and Computation*, 219 (2013) 5123-5139.
- [1134] K. Sabelfeld and N. Loshchina, Stochastic iterative projection methods for large linear systems, *Monte Carlo Methods Appl.*, 16 (2010) 343-359.
- [1135] S. Saha and M. Tahtali, A. Lambert and M. Pickering, Multi-axial CT reconstruction from few view projections, Proc. SPIE 8500, Image Reconstruction from Incomplete Data VII, 85000A (2012).
- [1136] S. Saha, M. Tahtali, A. Lambert and M. Pickering, Compressed sensing inspired rapid algebraic reconstruction technique for computed tomography, 2013 IEEE International Symposium on Signal Processing and Information Technology (ISSPIT), Athens, 12-15 Dec. 2013, 000398 (6 pp.).
- [1137] S. Saha, M. Tahtali, A. Lambert and M. Pickering, Tomographic reconstruction from fewer projections, MIRAGE '13 Proceedings of the 6th International Conference on Computer Vision / Computer Graphics Collaboration Techniques and Applications, 2013.
- [1138] S.K. Saha, M. Tahtali, A. Lambert and M. Pickering, Effect of smoothing on sparsity prior CT reconstruction, International Conference on Digital Image Computing: Techniques and Applications, Wollongong, Dubai, UAE, 25-27 Nov. 2014, 1-8.
- [1139] S. Saha, M. Tahtali, A. Lambert and M. Pickering, CT reconstruction from simultaneous projections: A step towards capturing CT in one go, *Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization*, (2014), 1-13.
- [1140] S. Saha, M. Tahtali, A. Lambert and M.R. Pickering, 3D x-ray reconstruction using lightfield imaging, Proc. SPIE 9209, Advances in Computational Methods for X-Ray Optics III, 92090T (2014). doi:10.1117/12.2061529
- [1141] S. Saha, M. Tahtali, A. Lambert and M. Pickering, Adaptive adjustment of relaxation parameters for algebraic reconstruction technique and its possible application to sparsity prior X-ray CT reconstruction, arXiv:1510.01458v1, 2015.
- [1142] R.B. Salah, O. Alata, B. Tremblais, L. Thomas and L. David, Tomographic reconstruction of 3D objects using marked point process framework, *Journal of Mathematical Imaging and Vision* (2018), doi.org/10.1007/s10851-018-0800-6.
- [1143] S. Samaddar and R. J. Mammone, Image-restoration using a row action projection method with adaptive smoothing, *Optical Engineering*, 34 (1995), 1132-1147.
- [1144] L.T. Dos Santos, A parallel subgradient projections method for the convex feasibility problem, *J. Comp. and Applied Math.*, 18 (1987), 307–320.
- [1145] R.J. Santos, Preconditioning conjugate gradient with symmetric algebraic reconstruction technique (ART) in computerized tomography, *Appl. Numer. Math.*, 47 (2003), 255–263.
- [1146] R.J. Santos and A.R. De Pierro, A cheaper way to compute generalized cross-validation as a stopping rule for linear stationary iterative methods, *Journal of Computational and Graphical Statistics*, 12 (2003), 417–433.
- [1147] H.D. Sarkissian, *Tomographie et géométrie discrètes avec la transformée Mojette*, Ph.D. Thesis, Université de Nantes, France, 2015.
- [1148] T.F. Sattel, T. Knopp, S. Biederer, B. Gleich, J. Weizenecker, J. Borgert and T. M. Buzug, Single-sided device for magnetic particle imaging, *J. Phys. D: Appl. Phys.*, 42 (2009), 022001 (5 pp).
- [1149] M. Saxild-Hansen, AIR Tools - A MATLAB Package for Algebraic Iterative Reconstruction Techniques, Master Thesis, Technical University of Denmark, Kongens Lyngby, Denmark, 2010.
- [1150] O. Scherzer (Ed.), *Handbook of Mathematical Methods in Imaging*, Springer, New York (2015).
- [1151] B.S. Schmidt, J. Galdon-Quíroga, J. Rueda-Rueda, J. Poley-Sanjuán, M. García-Muñoz, H. Järleblad, B.C.G. Reman, M. Rud, A. Valentini and M. Salewski, Iterative reconstruction methods and the resolution principle for fast-ion loss detector measurements, *Nucl. Fusion*, 64 (2024) 076009 (16pp).

- [1152] C. Schmidt, *Magnetic Particle Imaging Modeling and Solving a Dynamic Inverse Problem*, Ph.D. Thesis, Universität Hamburg, Germany (2022).
- [1153] D.D. Schmidt, *Evaluation of Imaging Parameters in Magnetic Particle Imaging*, Ph.D. Thesis, TU Braunschweig, Germany, 2018.
- [1154] D. Schmidt, D. Eberbeck, U. Steinhoff and F. Wiekhorst, Finding the magnetic size distribution of magnetic nanoparticles from magnetization measurements via the iterative Kaczmarz algorithm, *Journal of Magnetism and Magnetic Materials*, 431 (2017), 33–37.
- [1155] F.F. Schmitzberger, *Experimentelle Charakterisierung von Aortenaneurysmen mittels Magnetic Particle Imaging unter Verwendung von 3D-gedruckten Modellen*, Ph.D. Thesis, Charité – Universitätsmedizin Berlin, Germany (2022).
- [1156] C. Schnörr, T. Schüle and S. Weber, Variational reconstruction with DC-programming, In: G.T. Herman, A. Kuba (Eds.) *Advances in Discrete Tomography and Its Applications*, Birkhauser, Boston, 2007, pp. 227-243.
- [1157] H. Schomberg, Time-resolved cardiac cone beam CT using an interventional C-arm system, Technical Note PR-TN 2011/00497, Koninklijke Philips Electronics N.V., 2011.
- [1158] H. Schomberg, W. Vollmann and G. Mahnke, Lateral inverse filtering of ultrasonic B-scan images, *Ultrasonic Imaging*, 5 (1983), 38–54.
- [1159] F. Schöpfer and D.A. Lorenz, Linear convergence of the randomized sparse Kaczmarz method, *Mathematical Programming*, 173 (2019), 509–536.
- [1160] F. Schöpfer, D.A. Lorenz, L. Tondji and M. Winkler, Extended randomized Kaczmarz method for sparse least squares and impulsive noise problems, arXiv:2201.08620v1 (2022).
- [1161] C. Schorr and M. Maisl, Exploitation of geometric a priori knowledge for limited data reconstruction in non-destructive testing, Proceedings of Fully 3D Conference 2013, pp. 114-117.
- [1162] D. Schott, A general iterative scheme with applications to convex optimization and related fields, *Optimization*, 22 (1991), 885–902.
- [1163] D. Schott, Basic properties of Fejér monotone sequences, *Rostock. Math. Kolloq.*, 49 (1995), 57–74.
- [1164] C. Schretter, D. Blinder, S. Bettens, H. Ottevaere and P. Schelkens, Regularized non-convex image reconstruction in digital holographic microscopy, *Optics Express* 25, (2017), 16491–16508.
- [1165] H. Scolnik, N. Echebest, M.T. Guardarucci and M.C. Vacchino, New optimized and accelerated PAM methods for solving large non-symmetric linear systems: Theory and practice, In: *Inherently Parallel Algorithms in Feasibility and Optimization and their Application*, D. Butnariu, Y. Censor, S. Reich (Editors) Studies in Computational Mathematics, 8 (Elsevier Science Publishers, Amsterdam) 457–470, 2001.
- [1166] H. D. Scolnik, N.E. Echebest, M.T. Guardarucci and M.C. Vacchino, Acceleration scheme for parallel projected aggregation methods for solving large linear systems, *Annals of Operations Research*, 117 (2002), 95–115.
- [1167] H. D. Scolnik, N.E. Echebest, M.T. Guardarucci and M.C. Vacchino, A class of optimized row projection methods for solving large nonsymmetric linear systems, *Applied Numerical Mathematics*, 41 (2002), 499–513.
- [1168] H. D. Scolnik, N.E. Echebest, M.T. Guardarucci and M.C. Vacchino, Incomplete oblique projections for solving large inconsistent linear systems, *Mathematical Programming Ser. B*, 111 (2008), 273–300.
- [1169] H. D. Scolnik, N.E. Echebest and M.T. Guardarucci, Extensions of incomplete oblique projections method for solving rank-deficient least-squares problems, *Journal of Industrial and Management Optimization*, 5 (2009), 175–191.
- [1170] H. D. Scolnik, N.E. Echebest and M.T. Guardarucci, Implicit regularization of the incomplete oblique projections method, *International Transactions in Operational Research*, 16 (2009), 525–546.
- [1171] A. Seagar, *Application of Geometric Algebra to Electromagnetic Scattering. The Clifford-Cauchy-Dirac Technique*, Springer, Singapore, 2016.
- [1172] S. Seyyedi, K. Cengiz, M. Kamasak and I. Yildirim, An object-oriented simulator for 3D digital breast tomosynthesis imaging system, *Computational and Mathematical Methods in Medicine*, (2013), 250689 (8 pp).
- [1173] S. Seyyedi, K. Cengiz, M. Kamasak and I. Yildirim, An object-oriented simulator for 3D digital breast tomosynthesis system, 8th International Symposium on Image and Signal Processing and Analysis, Trieste, 4-6 Sept. 2013, pp.262-267.
- [1174] S. Seyyedi and I. Yildirim, 3D digital breast tomosynthesis image reconstruction using anisotropic total variation minimization, 36th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, Chicago, IL, 26-30 Aug. 2014, 6052-6055.

- [1175] S.G. Shafiei and M. Hajarian, Developing Kaczmarz method for solving Sylvester matrix equations, *Journal of the Franklin Institute* (2022), accepted.
- [1176] C. Shao, A deterministic Kaczmarz algorithm for solving linear systems, arXiv:2105.07736v1 (2021).
- [1177] C. Shao, Reflective block Kaczmarz algorithms for least squares, arXiv:2407.19226v1 (2024).
- [1178] C. Shao and A. Montanaro, Faster quantum-inspired algorithms for solving linear systems, arXiv:2103.10309v1 (2021).
- [1179] C. Shao and H. Xiang, Row and column iteration methods to solve linear systems on a quantum computer, *Physical Review, A* 101 (2020), 022322.
- [1180] M. Shaqfa, K.R.M. dos Santos and K. Beyer, On the conjugate symmetry and sparsity of the harmonic decomposition of parametric surfaces with the randomised Kaczmarz method, *SSRN* (2023), <http://dx.doi.org/10.2139/ssrn.4365845>.
- [1181] I.M. Shchedrov, Ph.D. Thesis (in Russian), Odessa, Ukraina, 2015.
- [1182] J. Shen, B. Yu, H. Wang, H. Yu and Y. Wei, Smoothness-constrained projection method for particle analysis based on forward light scattering, *Applied Optics*, 47 (2008), 1718–1728.
- [1183] L. Shi, *Real-Time In-Situ Seismic Tomography in Sensor Network*, Ph.D. Thesis, Georgia State University, Georgia, USA, 2016.
- [1184] L. Shi, W.-Z. Song, G. Kamath, G. Xing and X. Liu, Distributed least-squares iterative methods in networks: A survey, Submitted to *Computing Journal*, 2013.
- [1185] L. Shi, W.-Z. Song, M. Xu, Q. Xiao, J.M. Lees and G. Xing, Imaging Seismic Tomography in Sensor Network, *Sensor, Mesh and Ad Hoc Communications and Networks (SECON)*, 10th Annual IEEE Communications Society Conference on, New Orleans, LA, 24-27 June 2013, pp. 327–335.
- [1186] W. Shi, X. Yan and Z. Huan, Faster free pseudoinverse greedy block Kaczmarz method for image recovery, *Electronic Research Archive*, 32 (2024), 3973–3988.
- [1187] H.M. Shieh, C.L. Byrne, M.E. Testorf and M.A. Fiddy, Iterative image reconstruction using prior knowledge, *Journal of the Optical Society of America A-Optics Image Science and Vision*, 23 (2006), 1292–1300.
- [1188] H.M. Shieh, J.G. Li, Y.C. Hsu, M.C. Ye and D.G. Lee, Iterative prior-knowledge-based image reconstruction algorithms, International Symposium on Information Theory and its Applications (ISITA), Taichung, 17-20 Oct. 2010, pp.255-260.
- [1189] R.Z. Shilling, M.E. Brummer and K. Mewes, Merging multiple stacks MRI into a single data volume, 3rd IEEE International Symposium on Biomedical Imaging: Nano to Macro, 6-9 April 2006, Arlington, VA.
- [1190] S. Shimizu, T. Homma, H. Tsuchiya and Y. Ishihara, Simulation study on iterative reconstruction method for time-correlation magnetic particle imaging with continuous trajectory scan, *IEEE Transactions on Magnetics*, 51 (2015), 15019086 (4 pp).
- [1191] Y Shin and D Xiu, A randomized algorithm for multivariate function approximation, *SIAM Journal on Scientific Computing*, 39 (2017), A983–A1002.
- [1192] S. Shitrit and D. Sidilkover, Toward applying algebraic multigrid to transonic flow problem, *SIAM J. Sci. Comput.*, 32 (2010), 2007–2028.
- [1193] C. Shui, Y. Wang, W. Cai, and B. Zhou, Linear multispectral absorption tomography based on regularized iterative methods, *Optics Express* 29 (2021), 20889-20912.
- [1194] H.G. Siddalingaiah, R.P.K. Jagannath and G.R. Prashanth, Randomized recursive techniques for image reconstruction in diffuse optical tomography, *Eur. Phys. J. Plus* (2024), 139:584, 17 pages.
- [1195] Yu.V. Sidorov, Single acceleration methods of the Kaczmarz algorithm regularized modifications, *Procedia Computer Science*, 154 (2019), 319–326.
- [1196] Yu.B. Sidorov, Iteracionnye metody regulyazacii v regresionnom modelirovanii i obrabotke cifrovych dannykh, Ph.D. Thesis, Technical University of Samara, Samara, Russia (2022).
- [1197] M.G. Slaney, *Imaging with Diffraction Tomography*, Ph.D. Thesis, Purdue University, West Lafayette, IN, USA, 1985.
- [1198] F. Sloboda, A parallel projection method for linear algebraic systems, *Aplikace Matematiky*, 23 (1978), 185–198.
- [1199] F. Sloboda, A projection method of the Cimmino type for linear algebraic systems, *Parallel Computing*, 17 (1991), 435–442.
- [1200] A.A. Slobodyanenko, A projection method for solving discretized inverse problems for antenna measurements (in Russian). *Proceedings of the Russian Higher School Academy of Sciences*, 2(55), (2022), 36–45.

- [1201] D.T.M. Slock, On the convergence behavior of the LMS and the LMS algorithms, *IEEE Transactions on Signal Processing*, 41 (1993) 2811–2825.
- [1202] A. van der Sluis and H.A. van der Vorst, SIRT- and CG-type methods for the iterative solution of sparse linear least-squares problems, *Linear Algebra Appl.*, 130 (1990), 257–302.
- [1203] T.A. Smaglichenko and A. Smaglichenko, Resolution estimates for selected coordinate descent: Identification of seismic structure in the area of geothermal plants. In: Dolgui A., Bernard A., Lemoine D., von Cieminski G., Romero D. (eds) *Advances in Production Management Systems. Artificial Intelligence for Sustainable and Resilient Production Systems*. APMS 2021. IFIP Advances in Information and Communication Technology, vol 630. Springer, Cham. https://doi.org/10.1007/978-3-030-85874-2_62
- [1204] L. Smith, J. Chinneck and V. Aitken, Improved constraint consensus methods for seeking feasibility in nonlinear programs, *Comput. Optim. Appl.*, 54 (2013), 555–578.
- [1205] K.T. Smith, D.C. Solmon, S.L. Wagner and C. Hamaker, Mathematical aspects of divergent beam radiography, *Proc. Natl. Acad. Sci. USA*, 75(1978), 2055–2058.
- [1206] L.B. Sokolinsky and M. Sokolinskaya, Apex method: A new scalable iterative method for linear programming, *Mathematics*, 11 (2023), 1654. <https://doi.org/10.3390/math11071654>
- [1207] L.B. Sokolinsky and I.M. Sokolinskaya, On new version of the apex method for solving linear programming problems. *Bulletin of the South Ural State University. Series: Computational Mathematics and Software Engineering*, 12 (2023) 5–46. (in Russian).
- [1208] M. Soleimani and T. Pengpen, Introduction: a brief overview of iterative algorithms in X-ray computed tomography, *Phil. Trans. R. Soc. A*, 373 (2016), 20140399 (6 pp).
- [1209] V.Y. Soloviev, C. D’Andrea, P.S. Mohan, G. Valentini, R. Cubeddu and S.R. Arridge, Fluorescence lifetime optical tomography with discontinuous Galerkin discretisation scheme, *Biomedical Optics Express*, 1 (2010), 998–1013.
- [1210] V.Y. Soloviev and S.R. Arridge, Fluorescence lifetime optical tomography in weakly scattering media in the presence of highly scattering inclusions, *J. Opt. Soc. Am. A*, 28 (2011), 1513–1523.
- [1211] D. van de Sompel and M. Brady, Systematic performance analysis of SART as applied to digital breast tomosynthesis, *Digital Mammography*, Volume 5116 of the series Lecture Notes in Computer Science, 2008, pp. 561–569.
- [1212] D. van de Sompel and M. Brady, Simultaneous reconstruction and segmentation algorithm for digital breast tomosynthesis, *Proceedings of Medical Image Understanding and Analysis (MIUA)*, 2008.
- [1213] W.Z. Song, L. Shi, G. Kamath, Y. Xie and Z. Peng, Real-time in-situ seismic imaging: Overview and case study, SEG Annual Meeting, New Orleans, Louisiana, 18–23 October 2015, pp. 33–37.
- [1214] R.A. Soni, K.A. Gallivan and W.K. Jenkins, Low-complexity data reusing methods in adaptive filtering, *IEEE Transactions Signal Proces.*, 52 (2004), 394–405.
- [1215] R.E. Spall and T.B. Gatski, A computational study of the topology of vortex breakdown, *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, 435 (1991), 321–337.
- [1216] J.E. Spingarn, A projection method for least-squares solutions to overdetermined systems of linear inequalities, *Linear Algebra Appl.*, 86 (1987), 211–236.
- [1217] T. Srivastava, Nirvikar and R. Singh, Convergence of ART in few projections, *International Journal on Computer Science and Engineering*, 3 (2011), 705–713.
- [1218] A. Stammann, Fast and feasible estimation of generalized linear models with high-dimensional k -way fixed effects, arXiv:1707.01815v2 (2018).
- [1219] S.S. Stankovic, and M.S. Radenkovic, Self-tuning servo for stochastic references, *Automatica*, 22 (1986), 241–244.
- [1220] O. Steinbach and H. Yang, Comparison of algebraic multigrid methods for an adaptive space–time finite-element discretization of the heat equation in 3D and 4D, *Numer Linear Algebra Appl.* 2018; e2143, 17 pages.
- [1221] S. Steinerberger, Randomized Kaczmarz converges along small singular vectors, arXiv:2006.16978v1 (2020).
- [1222] S. Steinerberger, A weighted randomized Kaczmarz method for solving linear systems, arXiv:2007.02910v2 (2020).
- [1223] S. Steinerberger, Surrounding the solution of a linear system of equations from all sides, arXiv:2009.01757v1 (2020).
- [1224] S. Steinerberger, Quantile-based random Kaczmarz for corrupted linear systems of equations, arXiv:2107.05554v1, 2021.
- [1225] S. Steinerberger, Approximate solutions of linear systems at a universal rate, arXiv:2207.03388v1 (2022).

- [1226] S.U. Stich, *Convex Optimization with Random Pursuit*, Ph.D. Thesis, ETH Zurich, Switzerland, 2014.
- [1227] J.P. Stockmann, *New Strategies for Accelerated Spatial Encoding with Quadratic Fields in Magnetic Resonance Imaging*, Ph.D. Thesis, Yale University, New Haven, CT, USA, 2012.
- [1228] J.P. Stockmann, G. Galiana, L. Tam, C. Juchem, T.W. Nixon and R.T. Constable, In vivo O-space imaging with a dedicated 12 cm Z2 insert coil on a human 3T scanner using phase map calibration, *Magn Reson Med.*, 69 (2013), 444–455.
- [1229] M. Stojnic, Exact objectives of random linear programs and mean widths of random polyhedrons, arXiv:2403.03637v1 (2024).
- [1230] J. Stricker, Y. Censor and B. Zakharin, Inhomogeneous turbulent field diagnostics by distance-dependent tomographic reconstruction techniques, *Journal of Scientific Computing*, 11 (1996), 207–227.
- [1231] T. Strohmer and R. Vershynin, A randomized solver for linear systems with exponential convergence, *Lect. Notes Comput. Sc.*, 4110 (2006), 499–507.
- [1232] T. Strohmer and T.R. Vershynin, A randomized Kaczmarz algorithm with exponential convergence, *J. Fourier Anal. Appl.*, 15 (2009), 262–278.
- [1233] Y. Su, D. Han, Y. Zeng and J. Xie, The linear convergence of the greedy randomized Kaczmarz method is deterministic, arXiv:2307.01988v1 (2023).
- [1234] Y. Su, D. Han, Y. Zeng and J. Xie, On greedy multi-step inertial randomized Kaczmarz method for solving linear systems, arXiv:2308.00467v1 (2023).
- [1235] E.G. Suárez, *Non Linear Time Varying Model Identification in Ill-posed Problems Corresponding to Neural Activity Estimation from EEG Signals*, Ph.D. Thesis, Universidad Nacional de Colombia, Manizales, Colombia, 2013.
- [1236] D. Sueseenak, T. Chanwimalueang, W. Narkbuekaew, K. Chitsakul and C. Pintavirooj, Cone-Beam X-Ray tomography with arbitrary-orientation X-ray tube, 1st IEEE Conference on Industrial Electronics and Applications, Singapore, 24-26 May 2006, pp. 1-4.
- [1237] M.-L. Sun, C.-Q. Gu, and P.-F. Tang, On randomized sampling Kaczmarz method with application in compressed sensing, *Mathematical Problems in Engineering* (2020), Article ID 7464212, 11 pages.
- [1238] R. Sun and Y. Ye, Worst-case complexity of cyclic coordinate descent: $O(n^2)$ gap with randomized version, *Mathematical Programming*, 185 (2021), 487–520.
- [1239] W.-N. Sun and M. Qin, On maximum residual block Kaczmarz method for solving large consistent linear systems, arXiv:2404.09448v1 (2024).
- [1240] C. Syben-Leisner, *Known Operator Learning for a Hybrid Magnetic Resonance/X-ray Imaging Acquisition Scheme*, Ph.D. Thesis, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany, 2021.
- [1241] W.J. Swartworth, *Efficient Algorithms for Linear Regression and Spectrum Estimation*, Ph.D. Thesis, University of California, Los Angeles, USA (2023).
- [1242] W.J. Swartworth, D. Needell, R. Ward, M. Kong and H. Jeong, Nearly optimal bounds for cyclic forgetting, 37th Conference on Neural Information Processing Systems (NeurIPS 2023).
- [1243] R. Sznajder, Kaczmarz algorithm revisited, *Technical Transactions*, 2 (2015), 247–254.
- [1244] M. Szulc, S. Kirner, G. Forster and J. Schein, A novel approach to determine in-flight particle oxidation for thermal spraying processes, *J. Therm. Spray. Tech.*, 29 (2020), 932–946.
- [1245] R. Szwarc, Kaczmarz algorithm in Hilbert space and tight frames, *Appl. Comput. Harmon. Anal.*, 22 (2007), 382–385.
- [1246] R. Szwarc and G. Świdorski, Kaczmarz algorithm with relaxation in Hilbert space, *Studia Math.*, 216 (2013), 237–243.
- [1247] P. Szwargulski and T. Knopp, Influence of the receive channel number on the spatial resolution in magnetic particle imaging, *International Journal on Magnetic Particle Imaging*, 3 (2017), 1703014.
- [1248] S. Świerczkowski, A model of following, *Journal of Mathematical Analysis and Applications*, 222 (1998), 547–561.
- [1249] M. Tam, *The Method of Alternating Projections*, Ph.D. Thesis, University of Newcastle, Australia, 2012.
- [1250] W.W. Tan, An on-line modified least-mean-square algorithm for training neurofuzzy controllers, *ISA Transactions*, 46 (2007), 181–188.
- [1251] L.-Z. Tan, M.-Y. Deng and X.P. Guo, On multi-step greedy Kaczmarz method for solving large sparse consistent linear systems, *Communications on Applied Mathematics and Computation* (2024) <https://doi.org/10.1007/s42967-023-00358-7>.

- [1252] Y.-X. Tan and Z.-D. Huang, On a nonlinear fast deterministic block Kaczmarz method for solving nonlinear equations, *Communications on Applied Mathematics and Computation*, (2024) <https://doi.org/10.1007/s42967-024-00427-5>.
- [1253] K. Tanabe, Projection method for solving a singular system of linear equations and its applications, *Numer. Math.*, 17 (1971), 203–214.
- [1254] L. Tang, Y. Yu, Y. Zhang and H. Li, Sketch-and-project methods for tensor linear systems, arXiv:2201.00667v1 (2022).
- [1255] N.D. Tang, N. de Ruiter, J.L. Mohr, A.P.H. Butler, P.H. Butler and R. Aamir, Using algebraic reconstruction in computed tomography, *Medical Images: Formation, Handling and Evaluation*, Volume 98 of the series NATO ASI Series, (2014) pp. 377–396.
- [1256] L. Tao, S. Tsi-min and L. Chin-bo, Two synchronous parallel algorithms for partial differential equations, *Journal of Computational Mathematics*, 9 (1991), 74–85.
- [1257] Y. Tao, Z. Zhang, D. Hu, Z. Wu, W. Mao, G. Zhu, X. Fei, X. Ji, Y. Zhang, S. Xie, Y. Yao and Y. Chen, Prior image-constrained iterative reconstruction with adaptive step size for limited-angle CBCT, *IEEE Transactions on Instrumentation and Measurement*, 73 (2024), 1-13.
- [1258] Z. Taş and F.Ş. Torun, Quadratic programming based partitioning for Block Cimmino with correct value representation, *Turkish Journal of Electrical Engineering and Computer Sciences* 31 (2023), Article 8.
- [1259] O. Taubmann, *Dynamic Cardiac Chamber Imaging in C-arm Computed Tomography*, Ph.D. Thesis, University Erlangen-Nürnberg, Germany, 2018.
- [1260] R. Tempo, G. Calafiore and F. Dabbene, *Randomized Algorithms for Analysis and Control of Uncertain Systems with Applications*, Springer, 2013.
- [1261] J. Tepe, *Eine modifizierte algebraische Rekonstruktionstechnik zur Bestimmung des komplexen Brechungsindex in der THz-Tomographie*, Ph.D. Thesis, Saarbrücken, Germany, 2016.
- [1262] G. Tetzlaff, K. Arnold, A. Raabe and A. Ziemann, Observations of area averaged near-surface wind- and temperature-fields in real terrain using acoustic travel time tomography, *Meteorologische Zeitschrift*, 11 (2002), 273–283.
- [1263] R.P. Tewarson, Projection methods for solving sparse linear systems, *Computer Journal*, 12 (1969), 77–80.
- [1264] N.T. Thao and D. Rzepka, Pseudo-inversion of time encoding of bandlimited signals, arXiv:1911.12945v2 (2019).
- [1265] N.T. Thao, D. Rzepka and M. Miśkiewicz, POCS-based framework of signal reconstruction from generalized non-uniform samples, arXiv:2212.05163v1 (2022).
- [1266] K. Them, J. Salamon, P. Szwargulski, S. Sequeira, M.G. Kaul, C. Lange, H. Ittrich and T. Knopp, Increasing the sensitivity for stem cell monitoring in system-function based magnetic particle imaging, *Phys. Med. Biol.*, 61 (2016), 3279–3290.
- [1267] P. Thibault, *Algorithmic Methods in Diffraction Microscopy*, Ph.D. Thesis, Cornell University, Ithaca, NY, USA, 2007.
- [1268] W.M. Thompson, W.R.B. Lionheart, E.J. Morton, M. Cunningham and R.D. Luggar, High speed imaging of dynamic processes with a switched source X-ray CT, *Meas. Sci. Technol.*, 26 (2015), 055401 (11pp).
- [1269] G. Thoppe, V. Borkarb and D. Manjunath, A stochastic Kaczmarz algorithm for network tomography, *Automatica*, 50 (2014), 910–914.
- [1270] O.K. Tishchenko, I.P. Pliss and D.S. Kopaliani, A hybrid cascade optimized neural network (in Russian), *Radio Electronics, Computer Science, Control*, 1 (2014), 129–134.
- [1271] H. Toda, 3D image reconstruction. In: *X-Ray CT*. Springer, Singapore, 2021. https://doi.org/10.1007/978-981-16-0590-1_3.
- [1272] H. Tolle, P.C. Parks, E. Erstü, M. Hormel and J. Militzer, Learning control with interpolating memories – general ideas, design lay-out, theoretical approaches and practical applications, *International Journal of Control*, 56 (1992), 291–317.
- [1273] C.B. Tompkins, Methods of steepest descent, In: E.F. Beckenbach (Ed.) *Modern Mathematics for Engineer I*, McGraw-Hill, New York, 1956. (Polish translation: *Nowoczesna matematyka dla inżynierów*, PWN, Warszawa, 1962).
- [1274] C.B. Tompkins, Sperner’s lemma and some extensions, In: E.F. Beckenbach (Ed.), *Applied Combinatorial Mathematics*, Wiley, New York, 1964, pp. 416–455.
- [1275] L. Tondji, D.A. Lorenz and I. Necoara, An accelerated randomized Bregman-Kaczmarz method for strongly convex linearly constraint optimization, 2023 European Control Conference (ECC), Bucharest, Romania, (2023), pp. 1-6, doi: 10.23919/ECC57647.2023.10178390.
- [1276] L. Tondji, I. Tondji and D. Lorenz, Adaptive Bregman-Kaczmarz: An approach to solve linear inverse problems with independent noise exactly, arXiv:2309.06186v1 (2023).

- [1277] C.B. Top, A. Güngör, S. Ilbey and H. E. Güven, Trajectory analysis for field free line magnetic particle imaging, *Med Phys*, 46 (2019), 1592–1607.
- [1278] A. Torras-Rosell, O. Lylloff, S. Barrera-Figueroa and F. Jacobsen, Reconstruction methods for sound visualization based on acousto-optic tomography, Proceedings of INTER-NOISE, Innsbruck, Austria, 15.-18.Sept. 2013.
- [1279] P. Torrese and M.L. Rainone, Un’applicazione della metodologia sismica tomografica per lo studio di un problema di geologia urbana, *Giornale di Geologia Applicata*, 4 (2006), 182–188.
- [1280] F.S. Torun, M. Manguoglu and C. Aykanat, A novel partitioning method for accelerating the block Cimmino algorithm, *SIAM J. Sci. Comput.*, 40 (2018), C827–C850.
- [1281] F.S. Torun, M. Manguoglu and C. Aykanat, Enhancing block Cimmino for sparse linear systems with dense columns via Schur complement, *SIAM Journal on Scientific Computing*, 45 (2023) 10.1137/21M1453475.
- [1282] W. Treimer and U. Feye-Treimer, Two-dimensional reconstruction of small angle scattering patterns from rocking curves, *Physica B*, 241 (1997), 1228–1230.
- [1283] M.R. Trummer, SMART – An algorithm for reconstructing pictures from projections, *Zeitschrift für Angewandte Mathematik und Physik*, 34 (1983), 746–753.
- [1284] M.R. Trummer, A note on the ART of relaxation, *Computing*, 33 (1984), 349–352.
- [1285] D.N. Trushnikov, N.A. Musikhin, G.L. Permyakov, E.L. Krotova and F.R. Saucedo Zendejo, Algebraic reconstruction of beam’s spatial characteristics in electron beam welding, *Russian Engineering Research*, 23 (2023), 474–478.
- [1286] H.J. Trussell and M.R. Civanlar, The Landweber iteration and projection onto convex-sets, *IEEE Transactions on Acoustics Speech, and Signal Processing*, 33 (1985), 1632–1634.
- [1287] P Tseng, On the convergence of the products of firmly nonexpansive mappings, *SIAM J. Optim.*, 2 (1992), 425–434.
- [1288] Y.Z. Tsyppkin, J.D. Mason and K. Warwick, Identification of linear systems in the presence of piecewise polynomial disturbances, *IEEE Proceedings-Control Theory and Applications*, 143 (1996), 305–308.
- [1289] E. Turkel, D. Gordon, R. Gordon and S. Tsynkov, Compact 2D and 3D sixth order schemes for the Helmholtz equation with variable wave number, *Journal of Computational Physics*, 232 (2013), 272–287.
- [1290] E. Turkel, R. Gordon and D. Gordon, Local absorbing boundary conditions for the elastic wave equation, *Wave Motion*, 118 (2023), 103109.
- [1291] Ü.D. Tursun, *Random Projection Methods for Stochastic Convex Minimization*, Ph.D. Thesis, University of Illinois, Urbana, Illinois, USA, 2013.
- [1292] I. Uchiyama, C. Tsutake, K. Takahashi and T. FFujii, Holographic phase retrieval via Wirtinger flow: Cartesian form with auxiliary amplitude, *Optics Express*, 32 (2024) 20600.
- [1293] F.Z. Unton, A method for accelerating the first-order stochastic approximation algorithms, *IEEE Transactions on Automatic Control*, 26 (1981), 573–575.
- [1294] F.Z. Unton, Recursive estimator of the solutions of linear equation sequence, *IEEE Transactions on Automatic Control*, 29 (1984), 177–179.
- [1295] Z. Ustaoglu, Inversion of a generalized Radon transform by algebraic iterative methods, *Math. Meth. Appl. Sci.* (2022), 1–13.
- [1296] Z. Ustaoglu, Iterative inversion of Radon transform via discretization by fuzzy basic functions, *Journal of Computational and Applied Mathematics* 430 (2023) 115241.
- [1297] M.N. Vasilev and A.V. Gorshkov, Tomographic method for measuring distribution-functions in trajectory and phase-space in charged-particle beams monitors, *Instruments and Experimental Techniques*, 37 (1994), 581–591.
- [1298] V.V. Vasin and A.L. Ageev, *Ill-Posed Problems with a Priori Information*, VSP, Utrecht, 1995.
- [1299] V.V. Vasin, Iterative processes of Fejér type in ill-posed problems with a priori information (in Russian), *Izv. Vyssh. Uchebn. Zaved. Mat.*, (2009), Issue 2, 3–24. English translation in *Russian Mathematics (Iz. VUZ)*, 53 (2009), 1–20.
- [1300] B. Velasevic, R. Parasnis, C.G. Brinton and N. Azizan, On the effects of data heterogeneity on the convergence rates of distributed linear system solvers, arXiv:2304.10640v1 (2023).
- [1301] K.D. Velev, Comparative analysis of adaptive algorithms for estimating parameters of nonstationary objects (in Russian), *Avtomat. i Telemekh.*, 36 (1975), 40–47. English translation in *Automation and Remote Control*, 36 (1975), 1245–1251.

- [1302] A.S. Veríssimo, P.T. Lacava and A.S. de Toledo, Bi-dimensional reconstruction of a bunsen burner flame, 18th International Congress of Mechanical Engineering, Ouro Preto, MG, Brazil, November 6-11, 2005.
- [1303] Y.N. Vershinin and V.N. Krutikov, Orthogonalization of the sequence vectors learning algorithms (in Russian), *Vestnik of the Kemerovo State University*, 2 (50) (2012), 37–42.
- [1304] A.L. Vesnaver, Irregular grids in seismic tomography and minimum-time ray tracing, *Geophys. J. Int.*, 126 (1996), 147–165.
- [1305] P. Vicol, J. Lorraine, D. Duvenaud and R. Grosse, Implicit regularization in overparameterized bilevel optimization (Technical Report), University of Toronto.
- [1306] P.A. Vicol, *On Bilevel Optimization without Full Unrolls: Methods and Applications*, Ph. D. Thesis, University of Toronto, Canada (2023).
- [1307] M.A. Viergever, Introduction to discrete reconstruction methods in medical imaging, in: *Mathematics and Computer Science in Medical Imaging*, NATO ASI Series, 39, Springer, 1988, pp 43–65.
- [1308] H. Villarraga-Gómez, E.L. Herazo and S.T. Smith, X-ray computed tomography: from medical imaging to dimensional metrology, *Precision Engineering*, 60 (2019), 544–569.
- [1309] N.K. Vishnoi, Laplacian solvers and their algorithmic applications, *Theoretical Computer Science*, 8 (2012), 1–141.
- [1310] S.N. Volkov, N.G. Zaitsev, S.H. Park, D.-H. Kim and Y.-M. Noh, Fiber lidar for control of the ecological state of the atmosphere, *Atmosphere*, 15 (2024) , 729.
- [1311] W. Vollmann, H. Schomberg and G. Mahnke, Lateral Inverse Filtering of Ultrasonic B-Scan Images, in: *Acoustical Imaging*, Acoustical Imaging, 12, Springer, 1982, pp. 193–202.
- [1312] S.A. Vorobyev and E.V. Bodyanskiy, On a non-parametric algorithm for smoothing parameter control in adaptive filtering, *Engineering Simulation*, 16 (1999), 341–350.
- [1313] S. A. Vorobyov, A. Cichocki, Adaptive noise cancellation for multi-sensory signals, *Fluctuation Noise Lett.*, 1 (2001), 13–23.
- [1314] C. Wagner, *Introduction to Algebraic Multigrid*, Course Notes of an Algebraic Multigrid Course, University of Heidelberg, Germany, 1999.
- [1315] M. Wagner, *Entwicklung fortgeschrittener Quantifizierungsverfahren für die radiometrische Analyse von Zweiphasenströmungen*, Ph.D. Thesis, Technische Universität Dresden, Germany, 2019.
- [1316] I.S. Walimuni, *Enhancement of X-ray Computerized Tomographic Images Considering the Polychromatic Nature of X-rays*, Ph.D. Thesis, University of Houston, TX, USA, 2008.
- [1317] T. Wallace and A. Sekmen, Kaczmarz iterative projection and nonuniform sampling with complexity estimates, *Journal of Medical Engineering*, (2014), 908984 (15 pp).
- [1318] T. Wallace and A. Sekmen, Deterministic versus randomized Kaczmarz iterative projection, arXiv:1407.5593v1 (2014).
- [1319] E. Walter and L. Pronzato, *Identification of Parametric Models from Experimental Data*, Masson, Paris, 1997.
- [1320] B. Wang, W. Tan, Z. Huang, H. Ji and H. Li, Imager reconstruction algorithm for capacitively coupled electrical resistance tomography, *Flow Measurement and Instrumentation*, 40 (2014), 216–222.
- [1321] C. Wang, A. Agaskar and Y.M. Lu, Randomized Kaczmarz algorithm for inconsistent linear systems: An exact MSE analysis, 2015 International Conference on Sampling Theory and Applications (SampTA), Washington, DC, 25-29 May 2015, pp. 498 - 502. DOI: 10.1109/SAMPTA.2015.7148941.
- [1322] F. Wang, W. Li , W. Bao and L. Liu, Greedy randomized and maximal weighted residual Kaczmarz methods with oblique projection, arXiv:2106.13606v1, 2021.
- [1323] F. Wang, W. Li , W. Bao and Z. Lv, Gauss-Seidel method with oblique direction, arXiv:2106.00594v1 (2021).
- [1324] G. Wang, G.B. Giannakis and J. Chen, Solving large-scale systems of random quadratic equations via stochastic truncated amplitude flow, arXiv:1610.09540v1 (2016).
- [1325] G. Wang, Y. Zhang, X. Ye and X. Mou, X-ray computed tomography, In: G. Wang, Y. Zhang, X. Ye, X. Mou (Eds.), *Machine Learning for Tomographic Imaging*, IOP Publishing, 2020, pp. 4–1 to 4–58.
- [1326] H. Wang, L.K. Tam, R.T. Constable and G. Galiana, Fast rotary nonlinear spatial acquisition (FRONSAC) Imaging, *Magnetic Resonance in Medicine*, 75 (2016), 1154–1165.
- [1327] H. Wang, L. Tam, E. Kopanoglu, D.C. Peters, R.T. Constable and G. Galiana, Experimental O-space turbo spin echo imaging, *Magnetic Resonance in Medicine*, 75 (2016), 1654–1661.

- [1328] J. Wang, Z. Li, Y. Ran and Y. Li, On greedy randomized Kaczmarz-type methods for solving the system of tensor equations, *Applied Mathematics Letter*, 158 (2024), 109261.
- [1329] L. Wang, B. Zhou and J. Liu, Simultaneous recovery of the temperature and species concentration from integral equation model, *Applied Mathematical Modelling*, 40 (2016), 3090–3103.
- [1330] Q. Wang, W. Li, W. Bao and F. Zhang, Accelerated randomized coordinate descent for solving linear systems, *Mathematics*, 10 (2022), 4379. <https://doi.org/10.3390/math10224379>
- [1331] X. Wang, M. Che and Y. Wei, Randomized Kaczmarz methods for tensor complementarity problems, *Computational Optimization and Applications*, 82 (2022), 595–615.
- [1332] X. Wang, M. Che, C. Mo and Y. Wei, Solving the system of nonsingular tensor equations via randomized Kaczmarz-like method, *Journal of Computational and Applied Mathematics* (2022), accepted. doi: <https://doi.org/10.1016/j.cam.2022.114856>
- [1333] Y. Wang, C. Jacobsen, J. Maser and A. Osanna, Soft X-ray microscopy with a cryo scanning transmission X-ray microscope: II. Tomography, *Journal of Microscopy*, 197 (2000), 80–93.
- [1334] Z. Wang and J.-F. Yin, A surrogate hyperplane Kaczmarz method for solving consistent linear equations, *Applied Mathematics Letters* 144 (2023) 108704.
- [1335] W. Wang, D. Liu, G. Qu and C. Song, Greedy randomized block Kaczmarz method for matrix equation $AXB = C$ and its applications in color image restoration, arXiv:2408.05444v1 (2024).
- [1336] K. Warwick, C. Kambhampati and P. Parks, Dynamic systems in neural networks, in: K. Hunt, G. Irwin, K. Warwick (Eds.), *Neural Network Engineering in Dynamic Control Systems*, Springer, London, 1995, pp. 27–41.
- [1337] A. Watts, C. Johnstone and J. Johnstone, Computed tomography of transverse phase space, FERMILAB-CONF-16-382-TD, 2016.
- [1338] S. Weber, *Discrete Tomography by Convex-Concave Regularization using Linear and Quadratic Optimization*, Ph.D. Thesis, University Heidelberg, Germany, 2009.
- [1339] E.S. Weber, A Paley–Wiener type theorem for singular measures on $(-1/2, 1/2)$, *Journal of Fourier Analysis and Applications* 25 (2019), 2492–2502.
- [1340] F. Wegner, T. Friedrich, A. von Gladiss, U. Grzyska, M.M. Sieren, K. Lüttke-Buzug, A. Frydrychowicz, T.M. Buzug, J. Barkhausen and J. Haegele, Magnetic particle imaging: Artifact-free metallic stent lumen imaging in a phantom study, *Cardiovasc. Intervent. Radiol.*, 43 (2020), 331–338.
- [1341] F. Wegner, A. von Gladiss, J. Haegele, U. Grzyska, M.M. Sieren, K. Lüttke-Buzug, J. Barkhausen, T.M. Buzug and T. Friedrich, Stent lumen quantification of 21 endovascular stents with MPI, *International Journal on Magnetic Particle Imaging*, 6 (2020) 2009021, 3 pages.
- [1342] F. Wegner, A. von Gladiss, J. Haegele, U. Grzyska, M.M. Sieren, E. Stahlberg, T.H. Oechtering, K. Lüttke-Buzug, J. Barkhausen, T.M. Buzug and T. Friedrich, Magnetic particle imaging: In vitro signal analysis and lumen quantification of 21 endovascular stents, *International Journal of Nanomedicine*, 16 (2021), 213–221.
- [1343] K. Wei, Solving systems of phaseless equations via Kaczmarz methods: a proof of concept study, *Inverse Problems*, 31 (2015), 125008 (23 pp).
- [1344] W. Wei, T. Shi, S. Nie and X. Chen, On adaptive block coordinate descent methods for ridge regression, *Computational and Applied Mathematics* (2023) 42:315.
- [1345] M. Weinzierl, *Hybrid Geometric-Algebraic Matrix-Free Multigrid on Spacetrees*, Ph.D. Thesis, Technical University Munich, Germany, 2013.
- [1346] D. Weiß, *Computed Tomography Based on Cryo X-ray Microscopic Images of Unsectioned Biological Specimens*, Ph.D. Thesis, University Göttingen, Germany, 2000.
- [1347] J. Weizenecker, B. Gleich, J. Rahmer, H. Dahnke and J. Borgert, Three-dimensional real-time in vivo magnetic particle imaging, *Phys. Med. Biol.*, 54 (2009), L1–L10.
- [1348] L. Wen, F. Yin, Y. Liao and G. Huang, A geometric Gaussian Kaczmarz method for large scaled consistent linear equations, *Journal of Applied Mathematics and Physics*, 9 (2021), 2954–2965.
- [1349] L. Wen, F. Yin, Y. Liao and G. Huang, A greedy average block Kaczmarz method for the large scaled consistent system of linear equations, *AIMS Mathematics*, 7 (2022) 6792–6806, doi: 10.3934/math.2022378
- [1350] J. Wenger, G. Pleiss, M. Pförtner, P. Hennig and J.P. Cunningham, Posterior and computational uncertainty in Gaussian processes, arXiv:2205.15449v1 (2022).

- [1351] J. Wenger, *Probabilistic Numerical Linear Algebra for Machine Learning*, Ph. D. Thesis, Universität Tübingen, Germany (2023).
- [1352] P. Wesseling, *Introduction To Multigrid Methods*, NASA Report No. 195045 (1995).
- [1353] G. Wetzstein, *Computational Plenoptic Image Acquisition and Display*, Ph.D. Thesis, University of British Columbia, Vancouver, Canada, 2011.
- [1354] G. Wetzstein, D. Lanman, M. Hirsch and R. Raskar, Real-time image generation for compressive light field displays, *Journal of Physics: Conference Series*, 415 (2013), 012045 (10pp).
- [1355] J. Wirth, *Scale-Bridging Combination of Correlative 3D Microscopy Methods to Unravel the Complex 3D Microstructure of Porous Material Systems*, Ph. D. Thesis, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany (2022).
- [1356] G. Wittum, Multi-grid methods for Stokes and Navier-Stokes equations. Transforming Smoothers: Algorithms and Numerical Results, *Numerische Mathematik*, 54 (1989), 543–563
- [1357] G. Wittum, On the convergence of multi-grid methods with transforming smoothers. Theory with applications to the Navier-Stokes equations, *Numerische Mathematik*, 57 (1990), 15–38.
- [1358] K. W. Wong and B. Bachmann, Three-dimensional electron temperature measurement of inertial confinement fusion hotspots using x-ray emission tomography, *Rev. Sci. Instrum.* 93, 073501 (2022).
- [1359] S.J. Wright, Coordinate descent algorithms, *Mathematical Programming Series B*, 151 (2015), 3–34.
- [1360] G. Wu, Q. Chang, A semi-randomized block Kaczmarz method with simple random sampling for large-scale linear systems with multiple right-hand sides, arXiv:2212.08797v1 (2022).
- [1361] K. Wu, Y. Shin and D. Xiu, A randomized tensor quadrature method for high dimensional polynomial approximation *SIAM J. Sci. Comput.*, 39 (2017), A1811–A1833.
- [1362] N. Wu and H. Xiang, Projected randomized Kaczmarz methods, *Journal of Computational and Applied Mathematics*, 372 (2020), 112672.
- [1363] N.-C. Wu, C.-Z. Liu. and Q. Zuo, On the Kaczmarz methods based on relaxed greedy selection for solving matrix equation $AXB = C$, *Journal of Computational and Applied Mathematics*, 413 (2022), 114374.
- [1364] N.-C. Wu, C. Liu, Y. Wang and Q. Zuo, On the extended randomized multiple row method for solving linear least-squares problems, arXiv:2210.03478v1 (2022).
- [1365] N.C. Wu, C. Liu, Y. Wang and Q. Zuo, On the randomized multiple row-action methods for solving linear least-squares problems, *Research Square* (2024).
- [1366] N.-C. Wu., Y. Zhou and Z. Tian, On the relaxed greedy randomized Kaczmarz methods with momentum acceleration for solving matrix equation $AXB = C$, arXiv:2301.12753v1 (2023).
- [1367] N.-C. Wu, Y. Zhou and Z. Tian, On the alternating randomized block Kaczmarz method, arXiv:2311.00199v1 (2023).
- [1368] N.-C. Wu, Q. Zuo and Y. Wang, On the Polyak momentum variants of the greedy deterministic single and multiple row-action methods, arXiv:2212.06358v1 (2022).
- [1369] W.M. Wu and D. Needel, Convergence of the randomized block Gauss–Seidel method, *SIAM Under-graduate Research Online (SIURO)*, 11 (2018), 369–382.
- [1370] W.-T. Wu, On two-subspace randomized extended Kaczmarz method for solving large linear least-squares problems, *Numerical Algorithms*, 89 (2022), 1–31.
- [1371] S. Wysocki, *Performance Measure and Optimisation of a Computer Tomography Code for High Performance Computing*, Ph.D. Thesis, University of Edinburgh, Scotland, 2010.
- [1372] D. Wysoczański, J. Mrocza and A.G. Polak, Performance analysis of regularization algorithms used for image reconstruction in computed tomography, *Bulletin of the Polish Academy of Sciences Technical Sciences: Technical Sciences*, 61 (2013), 467–474.
- [1373] J. Xia, S. Chen, S. He, X. Liu and H. Guo, 3D image reconstruction for implosion pellet in ICF experiment based on iterative algorithms, *Information Technology Journal*, 12 (2013), 97–104.
- [1374] X. Xiang and L. Cheng, An accelerated randomized Kaczmarz method via low-rank approximation, *International Journal of Computer Mathematics*, 92 (2015), 1413–1421.
- [1375] X. Xiang, X. Liu, W. Tan and X. Dai, An accelerated randomized extended Kaczmarz algorithm, *Journal of Physics: Conf. Series*, 814 (2017), 012017.

- [1376] A.-Q. Xiao, J. Yin and N. Zheng, On fast greedy block Kaczmarz methods for solving large consistent linear systems, *Computational and Applied Mathematics* (2023) 42:119.
- [1377] A. Xiao, J. Yin and N. Zheng, On multi-step extended maximum residual Kaczmarz method for solving large inconsistent linear systems, arXiv:2309.03005v1 (2023).
- [1378] J. Xie, H. Qi and D. Han, Randomized iterative methods for generalized absolute value equations: Solvability and error bounds, arXiv:2405.04091v2 (2024).
- [1379] G. Xu, M. Li, A. Gopinath and C.L. Bajaj, Inversion of electron tomography images using L_2 -gradient flows – computational methods, *Journal of Computational Mathematics*, 29 (2011), 501–525.
- [1380] S. Xu, M. Kodialam, T.V. Lakshman, and S. Panwar, Learning based methods for traffic matrix estimation from link measurements, arXiv:2008.00905v1, 2020.
- [1381] H.-J. Yang, A partially simultaneous extension of Hildreth’s iterative row action method for quadratic programming, *Bulletin of the Institute of Mathematics Academia Sinica*, 17 (1989), 115–124.
- [1382] X. Yang, A geometric probability randomized Kaczmarz method for large scale linear systems, *Applied Numerical Mathematics*, (2020), published on line, <https://doi.org/10.1016/j.apnum.2020.10.016>
- [1383] K. Yang and K.G. Murty, New iterative methods for linear inequalities, *Journal of Optimization Theory and Applications*, 72 (1992), 163–185.
- [1384] K. Yang and K.G. Murty, Surrogate methods for linear inequalities, *NATO ASI Series, F82, Combinatorial Optimization*, (1992), 19–38.
- [1385] X. Yang, R. Hofmann, R. Dapp, T. van de Kamp, T. dos Santos Rolo, X. Xiao, J. Moosmann, J. Kashef and R. Stotzka, TV-based conjugate gradient method and discrete L-curve for few-view CT reconstruction of X-ray in vivo data, *Optics Express*, 23 (2015), 5368-5387.
- [1386] Y. Yaniv, *Kaczmarz Methods and Structured Matrix Decompositions*, Ph.D. Thesis, University of California, Los Angeles, USA (2024).
- [1387] Y. Yaniv, J.D. Moorman, W. Swartworth, T. Tu, D. Landis and D. Needell, Selectable set randomized Kaczmarz, arXiv:2110.04703v1 (2021).
- [1388] S. F. Yau and K.K. Yu, A sinogram restoration technique for the limited-angle problem in computer tomography, *Journal of Imaging Science and Technology*, 40 (1996), 254–264.
- [1389] I. V. Yegorov, 3-D numerical modeling of an electromagnetic field in geoelectrics using the Trefftz method, *Izvestiya, Physics of the Solid Earth*, 45 (2009), 812–821.
- [1390] I.V. Yegorov, Trefftz method for the solution of three dimensional forward and inverse problems of geoelectrics, *Izvestiya, Physics of the Solid Earth*, 47 (2011), 90–100.
- [1391] F. Yin, W. Li, K. Zhang, J. Wang and N.R. Pal, Pseudo inverse versus iterated projection: Novel learning approach and its application on broad learning system, *Information Sciences*, 649 (2023) 119648
- [1392] F. Yin, B-Y. Zhang and G.-X. Huang, A partially block randomized extended Kaczmarz method for solving large overdetermined inconsistent linear systems, *AIMS Mathematics*, 8 (2023), 18512–18527.
- [1393] J.-F. Yin, Restarted randomized surrounding methods for solving large linear equations, arXiv:2205.01388v1 (2022).
- [1394] S. Yin and Z. Ouyang, On constrained Kaczmarz algorithm with momentum for image reconstruction, *Mathematical Methods in the Applied Sciences*, (2024) <https://doi.org/10.1002/mma.9931>.
- [1395] H. Yokota, H. Higashi, Y. Tanaka and G. Cheung, Efficient learning of balanced signed graphs via iterative linear programming, arXiv:2409.07794v1 (2024).
- [1396] S.M. Yoon and G.-J. Yoon, Sparse-coding-based computed tomography image reconstruction, *The ScientificWorld Journal*, (2013), 145198 (5 pp).
- [1397] X. Yu, A. Cai, L. Li and B. Yan, Multi-material Reconstruction method based on deep prior of spectral computed tomography, ITCC’22: Proceedings of the 4th International Conference on Information Technology and Computer Communications, (2022) 39–44, <https://doi.org/10.1145/3548636.3548642>.
- [1398] X. Yu, N. Loh and W.C. Miller, New recursive algorithm for solving linear algebraic equations, *Electronics Letters*, 28 (1992), 2069–2071.
- [1399] J.Y. Yuan and L.C. Matioli, Asymptotically optimal row-action methods for generalized least squares problems, *International Journal of Computer Mathematics*, 70 (1998), 1–18.

- [1400] R. Yuan, *Stochastic Second Order Methods and Finite Time Analysis of Policy Gradient Methods*, Ph. D. Thesis, l'Institut Polytechnique de Paris, France (2023).
- [1401] R. Yuan, A. Lazaric and R.M. Gower, Sketched Newton-Raphson, arXiv:2006.12120v2 (2020).
- [1402] Z. Yuan, H. Zhang and H. Wang, Sparse sampling Kaczmarz-Motzkin method with linear convergence, arXiv:2101.04807v2 (2021).
- [1403] Z.-Y. Yuan, L. Zhang, H. Wang and H. Zhang, Adaptively sketched Bregman projection methods for linear systems, arXiv:2112.14456v1 (2021).
- [1404] M. Zadehkoochak, T.K. Hames, B.H. Blott and R.F. George, A transputer implemented algorithm for electrical impedance tomography, *Clinical Physics and Physiological Measurement*, 11 (1990), 223–230.
- [1405] M. Zadehkoochak, B.H. Blott, T.K. Hames and R.F. George, Spectral expansion analysis in electrical-impedance tomography, *Journal of Physics D-Applied Physics*, 24 (1991), 1911–1916.
- [1406] M.G. Zakharov, O.Y. Kulchitskii and A.A. Pervozvanskii, An economical algorithm of adaptive control of a multidimensional static process, *Automation and Remote Control*, (in Russian) 9 (1982), 70–76.
- [1407] R. Zalas, *Variational Inequalities for Fixed Point Problems of Quasi-Nonexpansive Operators*, Ph.D. Thesis (in Polish), Faculty of Mathematics, Computer Science and Econometrics, University of Zielona Góra, Zielona Góra, Poland (2014).
- [1408] M.B. Zellner and K. Champley, Development of a computed tomography system capable of tracking high-velocity unbounded material through a reconstruction volume, *International Journal of Impact Engineering*, 129 (2019), 26–35.
- [1409] Y. Zeng, D. Han, Y. Su and J. Xie, Randomized Kaczmarz method with adaptive stepsizes for inconsistent linear systems, *Numerical Algorithms*, 94 (2023), 1403–1420.
- [1410] R. Zdunek, On image reconstruction algorithms for binary electromagnetic geotomography, *Theoretical Computer Science*, 406 (2008), 160–170.
- [1411] R. Zdunek and M. Kotyla, Extraction of dynamic nonnegative features from multidimensional nonstationary signals, In: Y. Tan, Y. Shi (Eds.), *Data Mining and Big Data*, Lecture Notes in Computer Science, 9714. Springer, Cham.
- [1412] G.L. Zeng, Iterative reconstruction, In: *Medical Image Reconstruction*, Springer, 2010, pp. 125–173.
- [1413] S.-S. Zeng, *Ensemble Observability of Dynamical Systems*, Ph.D. Thesis, Universität Stuttgart, Germany, 2016.
- [1414] Y. Zeng, D. Han, Y. Su and J. Xie, On adaptive stochastic heavy ball momentum for solving linear systems, arXiv:2305.05482v2 (2023).
- [1415] Y. Zeng, D. Han, Y. Su and J. Xie, Fast stochastic dual coordinate descent algorithms for linearly constrained convex optimization, arXiv:2307.16702v3 (2023).
- [1416] Y. Zeng, D. Han, Y. Su and J. Xie, On adaptive stochastic extended iterative methods for solving least squares, arXiv:2405.19044v1 (2024).
- [1417] F. Zhang, Cyber-Maritime Cycle: Autonomy of Marine Robots for Ocean Sensing, *Foundations and Trends in Robotics*, 5 (2014), 1–115.
- [1418] H. Zhang, Y. Zhou, Y. Liang and Y. Chi, Reshaped Wirtinger flow and incremental algorithm for solving quadratic system of equations, arXiv:1605.07719v2 (2016).
- [1419] H. Zhang, Y. Zhou, Y. Liang and Y. Chi, A nonconvex approach for phase retrieval: Reshaped Wirtinger flow and incremental algorithms, *Journal of Machine Learning Research*, 18 (2017), 5164–5198.
- [1420] J.-J. Zhang, A new greedy Kaczmarz algorithm for the solution of very large linear systems, *Applied Mathematics Letters*, 91 (2019), 207–212.
- [1421] J. Zhang, Y. Wang, J. Zhao, On maximum residual nonlinear Kaczmarz-type algorithms for large nonlinear systems of equations, *Journal of Computational and Applied Mathematics*, 425 (2023) 115065.
- [1422] J. Zhang, Y. Wang and J. Zhao, On pseudoinverse-free block maximum residual nonlinear Kaczmarz method for solving large-scale nonlinear system of equations, *Japan Journal of Industrial and Applied Mathematics*, 41 (2024), 637–657.
- [1423] K. Zhang, X.-X. Chen and X.-L. Jiang, A residual-based surrogate hyperplane extended Kaczmarz algorithm for large least squares problems, *Calcolo* (2024), 61–51.
- [1424] K. Zhang, F.-T. Li and X.-L. Jiang, Multi-step greedy Kaczmarz algorithms with simple random sampling for solving large linear systems, *Computational and Applied Mathematics* (2022), 41: 332.

- [1425] K. Zhang, C.-T. Liu and X.-L. Jiang, A greedy randomized block coordinate descent algorithm with k-means clustering for solving large linear least-squares problems, *IAENG International Journal of Computer Science*, 51 (2024), 511-518.
- [1426] K. Zhang, H.-Y. Yin and X.-L. Jiang, An efficient variant of the greedy block Kaczmarz algorithm for solving large linear systems, *AIMS Mathematics*, 9 (2023), 2473–2499.
- [1427] L. Zhang, Z. Yuan, H. Wang and H. Zhang, A weighted randomized sparse Kaczmarz method for solving linear systems, *Computational and Applied Mathematics* (2022), 41:383.
- [1428] L. Zhang, H. Wang and H. Zhang, Quantile-based random sparse Kaczmarz for corrupted, noisy linear inverse systems, arXiv:2206.07356v1 (2022).
- [1429] L. Zhang, H. Wang and H. Zhang, Quantile-based random sparse Kaczmarz for corrupted and noisy linear systems, *Numerical Algorithms* (2024), <https://doi.org/10.1007/s11075-024-01844-6>.
- [1430] P. Zhang, J. Liu, Y. Li, L. Yin, Y. An, J. Zhong, H. Hui and J. Tian, Dual-feature frequency component compression method for accelerating reconstruction in magnetic particle imaging, *IEEE Transactions on Computational Imaging*, 9 (2023), 289-297.
- [1431] T. Zhang, Phase retrieval of complex-valued objects via a randomized Kaczmarz method, arXiv:2005.03238v1, 2020.
- [1432] Z. Zhang, *Robust Hybrid Sparse Linear System Solvers*, Ph.D. Thesis, Purdue University, West Lafayette, Indiana, USA, 2017.
- [1433] Y. Zhang and H. Li, A count sketch Kaczmarz method for solving large overdetermined linear systems, arXiv:2004.02062v1, 2020.
- [1434] Y. Zhang and H. Li, Greedy Motzkin-Kaczmarz methods for solving linear systems, arXiv:2011.06687v1 (2020).
- [1435] Y. Zhang and H. Li, Block sampling Kaczmarz-Motzkin methods for consistent linear systems, arXiv:2011.06688v1 (2020).
- [1436] Y. Zhang and H. Li, Preconvergence of the randomized extended Kaczmarz method, arXiv:2105.04924v1 (2021).
- [1437] Y. Zhang and H. Li, A count sketch maximal weighted residual Kaczmarz method for solving highly overdetermined linear systems, *Applied Mathematics and Computation*, 410 (2021), 126486.
- [1438] Y. Zhang and H. Li, Randomized block subsampling Kaczmarz-Motzkin method, arXiv:2211.16682v1 (2022).
- [1439] Y. Zhang, H. Li and L. Tang, Greedy randomized sampling nonlinear Kaczmarz methods, arXiv:2209.06082v1 (2022).
- [1440] Z. Zhang and A.H. Sameh, Block row projection method based on M-matrix splitting, *Journal of Computational and Applied Mathematics*, 340 (2018), 731–744.
- [1441] J. Zhao and J. Zhang, Faster deterministic pseudoinverse-free block extension of Motzkin method for large consistent linear systems, *East Asian Journal on Applied Mathematics*, 13 (2023), 914-934.
- [1442] M. Zhao, Z. Lai and L.H. Lim, Stochastic Steffensen method, arXiv:2211.15310v1 (2022).
- [1443] A. I. Zhdanov and Yu. V. Sidorov, Parallel implementation of a randomized regularized Kaczmarz’s algorithm (In Russian), *Comp. Opt.*, 39 (2015), 536–541.
- [1444] A.I. Zhdanov and Yu.V. Sidorov, The row-oriented form of the regularized Kaczmarz’s method (In Russian), *Vestn. Samar. Gos. Tekhn. Univ., Ser. Fiz.-Mat. Nauki [J. Samara State Tech. Univ., Ser. Phys. Math. Sci.]*, 21 (2017), 546–555 .
- [1445] W.-J. Zeng and J. Ye, Successive projection for solving systems of nonlinear equations/inequalities, arXiv:2012.07555v1 (2020).
- [1446] M.V. Zhirov, V.V. Makarov and V.V. Soldatov, *Identification and Adaptive Control of Technological Processes with Non-stationary Parameters*, Izdatelstvo MGTU, 2011.
- [1447] W. Zhou, Properties and applications of a conjugate transform on Schatten classes, *Journal of Inequalities and Applications*, (2022), Article number: 126.
- [1448] L. Zhu, Y. Lei and J. Xie, A greedy randomized average block projection method for linear feasibility problems, arXiv:2211.10331v1 (2022).
- [1449] Z. Zhu, K. Wahid and P. Babyn, Improved compressed sensing-based algorithm for sparse-view CT image reconstruction, *Computational and Mathematical Methods in Medicine*, (2013) 185750 (15 pp).
- [1450] A. Ziemann, Eine theoretische Studie zur akustischen Tomographie in der atmosphärischen Grenzschicht, *Wissenschaftliche Mitteilungen*, Institut für Meteorologie der Universität Leipzig, Band 19 (2000).

- [1451] A. Ziemann, K. Arnold and A. Raabe, Acoustic tomography in the atmospheric surface layer, *Ann. Geophysicae*, 17 (1999), 139–148.
- [1452] S. Ziemian, N. Löwa, O. Kosch, D. Bajj, F. Wiekhorst and G. Schütz, Optimization of iron oxide tracer synthesis for magnetic particle imaging, *Nanomaterials*, 8, 180 (2018), doi:10.3390/nano8040180.
- [1453] G. Zilli, Parallel method for sparse non-symmetric linear and non-linear systems of equations on a transputer network, *Supercomputer*, 6 XII-4 (1996), 4–15.
- [1454] R. Zorgati, W. van Ackooij and M. Lambert, Stochastic matrices and L_p norms: New algorithms for solving ill-conditioned linear systems of equations, *ESAIM: Proceedings*, July 2007, Vol.18, pp. 70–86.
- [1455] D. Zoul and P. Zháňal, 3D reconstruction of radioactive sample utilizing gamma tomography, *Nuclear Inst. and Methods in Physics Research*, A 895 (2018), 107–111.
- [1456] A. Zouzias, *Randomized Primitives For Linear Algebra and Applications*, Ph.D. Thesis, University of Toronto, Canada, 2013.
- [1457] A. Zouzias and N.M. Freris, Randomized extended Kaczmarz for solving least squares, *SIAM. J. Matrix Anal. & Appl.*, 34 (2013), 773–793.
- [1458] J.-M. Zuo, Electron nanodiffraction, in: P.W. Hawkes, J.C.H. Spence (Eds.), *Springer Handbook of Microscopy*, Springer 2019, pp. 905–969.
- [1459] Q. Zuo and T. Li, Fast and practical quantum-inspired classical algorithms for solving linear systems, arXiv:2307.06627v1 (2023).

Other publications which have the Kaczmarz method (algorithm) in the title

- [1] E. D. Aved'yan, Modified Kaczmarz algorithms for estimating the parameters of linear plants, *Avtomat. i Telemekh.*, 5 (1978) 64-72.
- [2] J. Baumeister, B. Kaltenbacher, A. Leitão, On Levenberg-Marquardt-Kaczmarz iterative methods for solving systems of nonlinear ill-posed equations, RICAM-Report 2009-12, 2009.
- [3] J. Baumeister, B. Kaltenbacher, A. Leitão, On Levenberg-Marquardt-Kaczmarz iterative methods for solving systems of nonlinear ill-posed equations, *Inverse Problems and Imaging*, 4 (2010) 335-350.
- [4] A. Băutu, E. Băutu, C. Popa, Tikhonov regularization in image reconstruction with Kaczmarz extended algorithm, Proceedings of ASIM, 2005
- [5] M. Burger, B. Kaltenbacher, Regularizing Newton-Kaczmarz methods for nonlinear ill-posed problems, *SIAM J. Numer. Anal.*, 44 (2006) 153-182.
- [6] A. Dax, An extended Kaczmarz's method for l_p minimum norm solutions, in: M. M. Lavrent'ev et al (Eds.), *Computerized Tomography, Proceedings of the Fourth International Symposium Novosibirsk, Russia*, De Gruyter VSP, Utrecht, 1995, pp. 106–116.
- [7] Kui Du, Tight upper bounds for the convergence of the randomized extended Kaczmarz and Gauss–Seidel algorithms. *Numerical Linear Algebra with Applications*, 26(3):e2233 (2019),
- [8] 2019.
- [9] B. Dumitrescu, On the relation between the randomized extended Kaczmarz algorithm and coordinate descent, *BIT Numerical Mathematics*, 55 (2015) 1005-1015.
- [10] J. Dyer, *Acceleration of the Convergence of the Kaczmarz Method and Iterated Homogeneous Transformations*, Ph.D. Thesis, California University Los Angeles, USA, 1965.
- [11] H.G. Feichtinger, T. Strohmer, A Kaczmarz-based approach to nonperiodic sampling on unions of rectangular lattices, Department of Mathematics, University of Vienna, Technical Report.
- [12] D. Filipović, K. Glau, Y. Nakatsukasa, and F. Statti, Weighted Monte Carlo with least squares and randomized extended Kaczmarz for option pricing, *Swiss Finance Institute Research Paper*, (19-54), 2019.
- [13] M. Haltmeier, R. Kowar, A. Leitão, O. Scherzer, Kaczmarz methods for regularizing nonlinear ill-posed equations II: Applications, *Inverse Problems and Imaging*, 1 (2007) 507-523.
- [14] M. Haltmeier, A. Leitão, E. Resmerita, On regularization methods of EM-Kaczmarz type, *Inverse Problems*, 25 (2009) 075008 (17pp).
- [15] M. Hanke, W. Niethammer, On the use of small relaxation parameters in Kaczmarz's method. Bericht über die Wissenschaftliche Jahrestagung der GAMM (Karlsruhe, 1989). *Z. Angew. Math. Mech.* 70 (1990), no. 6.
- [16] W.Z. Huang, The convergence of the multigrid method using symmetric Kaczmarz iteration as its smoothing method (in Chinese), *Acta Math. Appl. Sinica*, 16 (1993) 100-106.
- [17] H. Jeong, C.S. Gunturk, Convergence of the randomized Kaczmarz method for phase retrieval, arXiv:1706.10291v2 (2017).
- [18] Q. Jin, W. Wang, Landweber iteration of Kaczmarz type with general non-smooth convex penalty functionals, arXiv:1307.4311v1 (2013).
- [19] G. Kamath, P. Ramanan, W.-Z. Song, Distributed Randomized Kaczmarz and Applications to Seismic Imaging in Sensor Network, 2015 International Conference on Distributed Computing in Sensor Systems (DCOSS), Fortaleza, 10-12 June 2015, pp. 169-178. DOI: 10.1109/DCOSS.2015.27.
- [20] K.S. Kang, D.Y. Kwak, Convergence estimates for multigrid algorithms with Kaczmarz smoothing. Domain decomposition methods in sciences and engineering (Beijing, 1995), 227–232, Wiley, Chichester, 1997.
- [21] R. Kowar, O. Scherzer, Convergence analysis of a Landweber-Kaczmarz method for solving nonlinear ill-posed problems, In: S. Romanov, S.I. Kalanikhin, Y.E. Anikonov, A.L. Bukhgeim (Eds.) *Ill-Posed and Inverse Problems*, pp. 69– 90. VSP, Zeist, 2002.
- [22] B.D. Liberol, O.G. Rudenko, O.G. Timofeev, A modified Kaczmarz algorithm for estimating the parameters of nonstationary objects (in Russian), *Problemy Upravlen. Inform.*, 155, no. 4 (1995) 81-89.
- [23] M. Lunglmayr, M. Huemer, Microkicking for fast convergence of sparse Kaczmarz and sparse LMS, 2017 IEEE 7th International Workshop on Computational Advances in Multi-Sensor Adaptive Processing (2017).

- [24] F. Margotti, A. Rieder, A. Leitao, A Kaczmarz version of the REGINN-Landweber iteration for ill-posed problems in Banach spaces, *SIAM J. Numer. Anal.*, 52 (2014) 1439-1465.
- [25] Y. Markl, Accelerating the Kaczmarz algorithm convergence in the case of input process time correlation (in Russian), *Avtomat. i Telemekh.*, 8 (1980) 70-73.
- [26] V. Morkun, N. Morkun, A. Pikilnyak, Adaptive control system of ore beneficiation process based on Kaczmarz projection algorithm, *Metallurgical and Mining Industry*, 2 (2015) 35-38.
- [27] T. Nikazad, M. Abbasi and T. Elfving, Error minimizing relaxation strategies in Landweber and Kaczmarz type iterations, *J. Inverse Ill-Posed Probl.* (2015) ; DOI: 10.1515/jiip-2015-0082
- [28] T. Nikazad and M. Khakzad, Choosing relaxation parameter in randomized Kaczmarz method, *Journal of Computational and Applied Mathematics*, 444 (2024) 115790.
- [29] Marius Nitzsche, Bernadette N Hahn, Dynamic image reconstruction in MPI with RESESOP-Kaczmarz, arXiv:2401.14202v1 (2024).
- [30] A. I. Okrug, A dynamic Kaczmarz algorithm, *Avtomat. i Telemekh.*, 1 (1981) 74-79.
- [31] P. Oswald, W. Zhou, Convergence estimates for Kaczmarz-type methods, Technical Report, 2015.
- [32] E. Pelican, C. Popa, Preconditioned Kaczmarz algorithms with relaxation parameters, *AMO – Advanced Modeling and Optimization*, 2 (2000) 150-163.
- [33] C. Popa, Least-squares solutions of overdetermined inconsistent linear systems using Kaczmarz's relaxation, *Intern. J. Comput. Math.*, 55 (1995) 79-89.
- [34] C. Popa, Preconditioned Kaczmarz-extended algorithm with relaxation parameters, *Korean J. Comput. Appl. Math.*, 6 (1999) 523-535.
- [35] C. Popa, Oblique projections as preconditioner in Kaczmarz-like algorithms. Proceedings of the Ninth Symposium of Mathematics and its Applications, pp. 118-122, Rom. Acad., Timișoara, 2001.
- [36] C. Popa, A fast Kaczmarz-Kovarik algorithm for consistent least-squares problems, *Korean J. Comput. Appl. Math.*, 8 (2001) 9-26.
- [37] C. Popa, Extended Kaczmarz-like methods with oblique projections, *PAMM*, 2 (2003) 491-492.
- [38] C. Popa, A Kaczmarz-Kovarik algorithm for symmetric ill-conditioned matrices. *An. Stiint. Univ. Ovidius Constanta Ser. Mat.*, 12 (2004) 135-146.
- [39] C. Popa, Constrained Kaczmarz extended algorithm for image reconstruction, *Linear Algebra Appl.*, 429 (2008) 2247-2267.
- [40] C. Popa, Algebraic multigrid smoothing property of Kaczmarz's relaxation for general rectangular, *Electronic Transactions on Numerical Analysis*, 29 (2008) 150-162.
- [41] C. Popa, T. Preclik, H. Köstler, U. Rüde, On Kaczmarz's projection iteration as a direct solver for linear least squares problems, *Linear Algebra Appl.*, 436 (2012), 389-404.
- [42] D. Przeworska-Rolewicz, Remarks on the article of W. Orlicz: "Stefan Kaczmarz (1895-1939)" *Wiadom. Mat.* 26 (1985) 155-164, *Wiadomości Matematyczne*, 30 (1993) 131.
- [43] A. Ramdas, Rows vs columns for linear systems of equations – randomized Kaczmarz or coordinate descent?, arXiv:1406.5295v1 (2014).
- [44] R. Ramlau, D. Saxenhuber, M. Yudytskiy, Iterative reconstruction methods in atmospheric tomography: FEWHA, Kaczmarz and Gradient-based algorithm, Proc. SPIE 9148, Adaptive Optics Systems IV, 91480Q (July 21, 2014). DOI:10.1117/12.2057379
- [45] L. Salehi, G. Schmitz, Nonlinear reconstruction of compressibility and density variations using the Kaczmarz method, 2012 IEEE International Ultrasonics Symposium (IUS), Dresden, 7-10 Oct. 2012, pp. 386-389. DOI: 10.1109/ULTSYM.2012.0095
- [46] T. Strohmer, R. Vershynin, Comments on the randomized Kaczmarz method, *Journal of Fourier Analysis and Applications*, 15 (2009) 437-440.
- [47] Y.S. Tan, R. Vershynin, Phase retrieval via randomized Kaczmarz: Theoretical guarantees, arXiv:1706.09993v1 (2017).
- [48] L. Xing, W. Bao, Y. Lv, Z. Guo and W. Li, Randomized block Kaczmarz methods for inner inverses of a matrix, *Mathematics*, 12 (2024) 475.
- [49] Z. Zhang, Y. Yu, S. Zhao, Iterative hard thresholding based on randomized Kaczmarz method, *Circuits Syst Signal Process* (2014) DOI 10.1007/s00034-014-9934-y

- [50] J.X. Zhao, The modified Kaczmarz method for solving linear systems. (Chinese) Nanjing Daxue Xuebao Shuxue Bannian Kan 5, (1988), no. 1, 121–123.
- [51] V. Hutterer, R. Ramlau, Non-linear wavefront reconstruction methods for pyramid sensors using Landweber and Landweber-Kaczmarz iteration, arXiv:1808.07673v1 (2018).

Other publications on the Kaczmarz method

- [1] R. Aharoni, Y. Censor, Block-iterative projection methods for parallel computation of solutions to convex feasibility problems, *Linear Algebra Appl.*, 120 (1989) 165-175.
- [2] S. Anzengruber, F. Bauer, A. Leitão, R. Ramlau, New algorithms for parallel MRI, *Journal of Physics: Conference Series*, 135 (2008) 012009 (8pp). DOI:10.1088/1742-6596/135/1/012009
- [3] H. H. Bauschke, F. Deutsch, H. Hundal, S-H. Park, Accelerating the convergence of the method of alternating projections, *Transactions of the AMS*, 355 (2003) 3433-3461.
- [4] M. Benzi, C.D. Meyer, A direct projection method for sparse linear systems, *SIAM J. Sci. Comput.*, 16 (1995) 1159-1176.
- [5] M. Bhatia, W.C. Karl, A.S. Willsky, Tomographic reconstruction and estimation based on multiscale natural-pixel bases, *IEEE Transactions on Image Processing*, 6 (1997) 463-478.
- [6] N. Buong, N.D. Dung, Regularization for a common solution of a system of nonlinear ill-posed equations, *Int. Journal of Math. Analysis*, 3 (2009) 1693-1699.
- [7] M. Burger, Parameter Identification, Lecture Notes, Winter School Inverse Problems 2005.
- [8] M. Burger, Inverse Problems, Lecture Notes, Summer 2005.
- [9] M. Burger, H.W. Engl, A. Leitão, P. A. Markowich, On inverse problems for semiconductor equations, *Technical Report*, 2003.
- [10] A. Cegielski, A. Suchocka, Incomplete alternating projection method for large inconsistent linear systems, *Linear Algebra Appl.*, **428** (2008) 1313-1324.
- [11] Y. Censor, G.T. Herman, Block-iterative algorithms with underrelaxed Bregman projections, *SIAM Journal on Optimizations*, 13 (2002) 283-297.
- [12] M. Chukalina, D. Nikolaev, A. Simionovici, Apparatus and computer X-ray tomography: Visualization and intrinsic structure, evaluation of performance and limitations, Proceedings 19th European Conference on Modelling and Simulation, 2005.
- [13] S.B. Colak, D.G. Papaioannou, G.W. 't Hooft, M.B. van der Mark, H. Schomberg, J.C.J. Paasschens, J.B.M. Melissen, N.A.A.J. van Asten, Tomographic image reconstruction from optical projections in light-diffusing media, *Applied Optics*, 36 (1997) 180-213.
- [14] A. Cichocki, R. Zdunek, S. Choi, R. Plemmons, S.-i. Amari, Novel multi-layer non-negative tensor factorization with sparsity constraints, in: *Adaptive and Natural Computing Algorithms*, Lecture Notes in Computer Science 4432, Springer, Berlin, 2007, pp. 271-280.
- [15] A. Cichocki, R. Zdunek, S. Choi, R. Plemmons, S.-i. Amari, Non-negative tensor factorization using alpha and beta divergences, IEEE International Conference on Acoustics, Speech and Signal Processing, 2007.
- [16] O. Dorn, Shape reconstruction for an inverse radiative transfer problem arising in medical imaging, Technical Report.
- [17] O. Dorn, E.L. Miller, C.M. Rappaport, A shape reconstruction method for electromagnetic tomography using adjoint fields and level sets, Technical Report, 2000.
- [18] T. Elfving, A stationary iterative pseudoinverse algorithm, *BIT*, 38 (1998) 275-282.
- [19] C.L. Epstein, *Mathematics of Medical Imaging*, Prentice Hall, Upper Saddle River, NJ, 2003.
- [20] T.G. Feeman, *The Mathematics of Medical Imaging. A Beginner's Guide*, Springer, 2015.
- [21] R. Ghos, *A Novel Hybrid Learning Algorithms for Artificial Neural Networks*, Ph.D. Thesis, Griffith University, Nathan QLD, Australia, 2002.
- [22] R. Gordon, R. Bender, G.T. Herman, Algebraic reconstruction techniques (ART) for three-dimensional electron microscopy and X-ray photography, *Journal of Theoretical Biology*, 29 (1970) 471-481.
- [23] M. Griebel, P. Oswald, Greedy and randomized versions of the multiplicative Schwarz method, *Linear Algebra Appl.*, 437 (2012) 1596-1610.
- [24] M. Haltmeier, O. Scherzer, A. Leitão, Tikhonov and iterative regularization methods for embedded inverse problems, Technical Report.
- [25] C. Hamaker, A range problem for homogeneous, hyperbolic partial differential equations, *Rocky Mountain J. Math.*, 18 (1988) 571-584.

- [26] K.M. Hanson, Optimization of reconstruction algorithms using Monte-Carlo simulation, *Amer. Inst. Phys. Conf. Ser.*, 97 (1989) 721-734.
- [27] W.L. Hart, T. S. Motzkin, A composite Newton-Raphston gradient method for the solution of systems of equations, *Pacific J. Math.*, 6 (1956), 691-707.
- [28] G.T. Herman, A relaxation method for reconstructing objects from noisy X-rays, *Mathematical Programming*, 8 (1975) 1-19.
- [29] G.T. Herman, A. Lent, H. Lutz, Iterative relaxation methods for image reconstruction, *Commun.Assoc. Comput. Mach.*, 21 (1978) 152-158.
- [30] I. Koltracht, P. Lancaster, Constraining strategies for linear iterative process, *IMA Journal of Numerical Analysis*, 10 (1990) 555-567.
- [31] V.F. Kravchenko, M.A. Basarab, An algebraic method for solving the Radon integral equation in a complex-shaped domain on the basis of the theory of R-functions, *Differential Equations*, 38 (2002) 1344-1350.
- [32] P. Kügler, An approach to online parameter estimation in nonlinear dynamical systems, Technical Report, Universitat Linz, 2004.
- [33] T. Lasser, Fourier transformation for computer tomography reconstruction, Technical Report, 2004.
- [34] A. Leitão, P. A. Markovich, J.P. Zubelli, On inverse doping profile problems for the voltage-current map, Technical Report, 2005.
- [35] A. Leitão, J.P. Zubelli, Iterative regularization methods for a discrete inverse problem in MRI, *CUBO, A Mathematical Journal*, 2008.
- [36] C. Liu, An acceleration scheme for row projection methods, *Journal of Computation and Applied Mathematics*, 57 (1995) 363-391.
- [37] M. Lunglmayr, M. Huemer, Sparsity-Enabled Step Width Adaption For Linearized Bregman Based Algorithms, 2018 IEEE Statistical Signal Processing Workshop.
- [38] A. Ma, *Stochastic Iterative Algorithms for Large-scale Data*, Ph.D. Thesis, San Diego State University, USA (2018).
- [39] J. Mandel, Convergence of the cyclical relaxation method for linear inequalities, *Mathematical Programming*, 30, (1984) 218-228.
- [40] J.M. Martínez, Solution of nonlinear systems of equations by an optimal projection method, *Computing*, 37 (1986) 59-70.
- [41] C.D. Meyer, *Matrix Analysis and Applied Linear Algebra*, SIAM, Philadelphia, 2000.
- [42] P. Monk, M611 – Tomography project, Technical Report, 2006.
- [43] F. Natterer, Reflectors in wave equation imaging, *Wave Motion*, 45 (2008) 776-784.
- [44] F. Natterer, *The Mathematics of Computerized Tomography*, SIAM, Philadelphia, 2001.
- [45] F. Natterer, *Ultrasound tomography with fixed linear arrays of transducers*, in: Proceedings of the Interdisciplinary Workshop on Mathematical Methods in Biomedical Imaging and Intensity-Modulated Radiation Therapy (IMRT), Pisa, Italy, October 2007.
- [46] F. Natterer, F. Wübbeling, Marching schemes for inverse acoustic scattering problems, *Numer. Math.*, 100 (2005) 697-710.
- [47] I. Peterlík, R. Jiřík, N. Ruiter, R. Stotzka, J. Jan, R. Kolář, Algebraic reconstruction technique for ultrasound transmission tomography, in: Proceedings of International Conference ITAB 2006. Ioannina (Greece), 2006, (6 pp).
- [48] C. Popa, Extensions of block-projections methods with relaxation parameters to inconsistent and rank-deficient least-squares problems, Technical Report, 1996.
- [49] C. Popa, Block-projections algorithms with blocks containing mutually orthogonal rows and columns, *BIT*, 39 (1999) 323-338.
- [50] C. Popa, R. Zdunek, Penalized least-squares image reconstruction for borehole tomography, *Proceedings of Algoritmy 2005*, pp. 260-269.
- [51] H.D. Scolnik, N. Echebest, MT. Guardarucci, Incomplete oblique projections method for solving regularized least-squares problems in image reconstruction, *International Transactions in Operational Research*, 15 (2008) 417-438.
- [52] Y. Shin, K. Wu, D. Xiu, Sequential function approximation with noisy data, *Journal of Computational Physics*, 371 (2018) 363-381.

- [53] G. Strang, *Linear Algebra and Learning from Data*, Wellesley- Cambridge Press, Wellesley, USA, 2019.
- [54] L.P. Urimi, *Image Reconstruction Techniques and Measure of Quality: Classical vs. Modern Approaches*, Ph.D. Thesis, University of Maryland, MD, USA, 2005.
- [55] J. Vogelgesang and C. Schorr, Iterative Region-of-Interest Reconstruction from Limited Data Using Prior Information, *Sens. Imaging*, 18:16 (2017), 21 pages.
- [56] H.A. van den Vorst, *Iterative Krylov Methods for Large Linear Systems*, Cambridge University Press, Cambridge, UK, 2003.
- [57] M. Yokota, Application of multigrid moment method to scattering of a Gaussian beam by a nonlinear dielectric cylinder, *Proceedings of ISAP'04*, Sendai, Japan.
- [58] Y. Zhuang, X.-H. Sun, A high-order fast direct solver for singular Poisson equations, *Journal of Computational Physics*, 171 (2001) 79-94.
- [59] J.P. Zubelli, *Inverse Problems of Partial Differential Equations in Industry and Engineering*, A Tutorial, IMPA, Rio de Janeiro, 2003.

Other related publications

- [1] I. Akduman, A. Alkumru, A generalized ART algorithm for inverse scattering problems related to buried cylindrical bodies, *Inverse Problems*, 11 (1995) 1125.
- [2] M. Bertero, P. Boccacci, *Introduction to Inverse Problems in Imaging*, Institute of Physics Publishing, Bristol and Philadelphia, 1998.
- [3] Y. Censor, An automatic relaxation method for solving interval linear inequalities, *Journal of Mathematical Analysis and Applications*, 106, (1985) 19-25.
- [4] R.W. Deming, J.T. Parker, An iterative inverse-scattering approach to distributed sensing, *IEEE Radar Conference*, Pasadena, CA, 4-8 May 2009, pp. 1-5.
- [5] J.E. Dendy Jr., Black box multigrid for systems, *Applied Mathematics and Computation*, 19 (1986) 57-74.
- [6] D.K. Faddeev, V.N. Faddeeva, *Computational Methods of Linear Algebra*, W. H. Freeman and Co., San Francisco, 1963 (English translation of Russian original published by Nauka, Moscow, 1960).
- [7] E.J. Gauss, A Comparison of Machine Organizations by Their Performance of the Iterative Solution of Linear Equations, *Journal of the ACM*, 6, (1959) 476-485.
- [8] J. Gilbert, L. Gilbert, *Linear Algebra and Matrix Theory*, Second Edition, Thomson, 2004.
- [9] A.V. Gorshkov, Reimage software package for improving image-resolution in processing experimental-data and retrieving the instrumental function, *Instruments and Experimental Techniques*, 38 (2) (1995) 185-191.
- [10] M. Hanke, M. Neumann, W. Niethammer, On the spectrum of the SOR operator for symmetric positive definite matrices, *Linear Algebra Appl.*, 154-156 (1991) 457-472.
- [11] T.T. Montanari, Chebyshev acceleration of the method of Cimmino, *Calcolo*, 21 (1984) 61-74.
- [12] W.W. Stiffler, (Editor), Engineering Research Associates, *High-speed computing devices*, (Supervisors: C. B. Tompkins, J. H. Walekin) McGraw-Hill, New York, 1950 (ref. [22] in [446]).
- [13] C. Tompkins, Projection methods in calculation of some linear problems, multilithed typescript (52 pp), Part of Engineering Research Associates, *Logistic papers*, issue no. IV, Appendix I to Bimonthly Progress report No. 17, Contract N6onr-240, Task Order I, Office of Naval Research, Project NR 047 010, 1949.
- [14] C. Tompkins, Projection methods in calculation of some linear problems, *Bull. Amer. Math. Soc.*, 55 (1949) 520.

Recently added publications