



Index

- About Norms and Causes, 502
ABSURDIST II: A Graph Matching Algorithm and Its Application to Conceptual System Translation, 640
Active Architecture for Managing Events in Pervasive Computing Environments, An, 405
Adapting LSI for Fine-Grained and Multi-Level Document Comparison, 141
Adaptive K-Means Clustering, 695
Adelman, Nicholas, 141
Advancements and Trends in Medical Case-Based Reasoning: An Overview of Systems and System Development, 178
Agent-based Players for a First-Person Entertainment-Based Real-Time Artificial Environment, 14
Agents, 1
Aha, David W., 172
AI and Music, 26
AI and the Web, 48
AI Education, 73
AI in Aerospace, 92
AI in Medicine, 103
AI Techniques in Multisensor Fusion, 121
Alena, Rick, 732
Aler, Ricardo, 713
Analysis of Rule Refinement Conflicts, 331
Analysis of the Relative, Complexive and Indirect Interrogative Subordinate Constructions in French by Means of the Applicative and Combinatory Categorical Grammar, The, 479
Anand, Sarab, 532
André, Elisabeth, 38
Aperiodic Dynamics and the Self-Organization of Cognitive Maps in Autonomous Agents, 424
Application of Neural Networks to Sequence Analysis and Genre Identification, An, 611
Arsenio, Artur M., 726
Asadi, Mehran, 509
Atzmüller, Martin, 154
Augmenting AI Coursework Through Undergraduate Research, 80
Automated Reasoning, 140
Automatic Creation of Contextual Knowledge in Simulated Agents, 587
Automatic Generation of Background Text to Aid Classification, 67
Backcalculation of Airport Flexible Pavement Nonlinear Moduli Using Artificial Neural Networks, 652
Balaraman, Vivek, 160
Ball, Jerry T., 220
Bandar, Zuhair, 387, 515, 820, 838
Barber, K. Suzanne, 412
Bartatier, P., 122
Barnden, John A., 154
Barr, Valerie, xvii
Barrett, Gilbert C., 603
Barták, Roman, 257
Baumann, Stephan, 27
Baumeister, Joachim, 154, 319
Begin, Claude, 479
Being as Informative as the User Wants: The Generation of Information Enriched Utterances, 893
Benferhat, Salem, 832
Benoit, E., 122
Bertinshaw, Daniel J., 783
Bhatia, Sanjiv K., 695
Bisant, David, 611
Biskri, Ismail, 479
Blind Data Classification Using Hyper-Dimensional Convex Polytopes, 520
Borges, M. R. S., 575
Borrajó, Daniel, 713
Brena, Ramon F., 418
Brézillon, Patrick, 575, 581, 594
Brodie, John, 306
Buckles, Bill P., 380
Building Hint Specifications in an NL Tutorial System for Mathematics, 929
Burnell, Lisa, 405
Butz, Brian P., 361
Calbert, Gregory J., 751
Canosa, Roxanne L., 226, 617
Cao, Cungen, 460
Cardot, Jérôme, 491
Case-Agents: A Novel Architecture for Case-Based Agents, 202
Case-Based Approaches for Diagnosing Multiple Disorders, 154
Case-Based Bayesian Network Classifiers, 538
Case-Based Reasoning, 153
Case-Based Reasoning in Support of Intelligence Analysis, 213
Castro, José, 623
Categorization Versus Logic in Category Conjunction: Towards a Model of Overextension, 485
Cautious Cooperative Learning with Distributed Case-Based Reasoning, 196
Ceballos, Hector G., 418
Cellular Automata Approach to Aircraft Corrosion Pit Growth, 93
Chakraborti, Sutanu, 160
Chan, Philip, 306
Chaoji, Vineet S., 232
Characterizing Quality of Knowledge on Semantic Web, 472
Chellapa, Srinivas, 128
Chen, Dechang, 104

- Chesñevar, Carlos Iván, 393
 Clancey, William J., 732
 Clark, Keith L., 49
 Cleereman, Kevin, 757
 Clustering Spatial Data in the Presence of Obstacles, 312
 Coble, Jeffrey, 300
 Cognitive Modeling, 219
 Collier, Rem, 2
 Combining Entropy Based Heuristics with Minimax Search and Temporal Differences to Play Hidden State Games, 751
 Combining Global and Local Ontology Handling in a Multiagent System, 418
 Combining Methods for Word Sense Disambiguation of WordNet Glosses, 467
 Composing Affective Music with a Generate and Sense Approach, 38
 Computational Psycholinguistic Model of Natural Language Processing, A, 220
 Computing Marginals with Hierarchical Acyclic Hypergraphs, 862
 Computing with Emotions in Multiagent Systems, 238
 Concurrent Backtrack Search on DisCSPs, 776
 Conditioning and Evidence, 844
 Constraint Processing with Reactive Agents, 293
 Constraint Solving and Programming, 256
 Context Free Grammar for the Generation of a One Time Authentication Identity, 544
 Context-Based Approach of Security Policies, A, 594
 Context-Based Awareness in Group Work, 575
 Context-Based Reasoning: A Revised Specification, 603
 Context-Based Representation of the Task/Method Paradigm, 581
 Cook, Diane J., 300
 Costello, Fintan J., 485
 Cox, Michael T., 166, 757
 Crawford, Sekou, 732
 Crockett, Keeley, 387, 838
 CSAA: A Distributed Ant Algorithm Framework for Constraint Satisfaction, 764
 Cukierman, Diana R., 789
 Dancey, Darren, 515
 Danielson, Mats, 850
 Dapoigny, R., 122
 Darrah, Marjorie, 629
 Data Mining, 299
 de Rosnay, Melanie Dulong, 27
 Decision Tree Extraction from Trained Neural Networks, 515
 Delgrande, James P., 789
 Demara, Ronald, 623
 Desclés, Jean-Pierre, 491
 Devanathan, R., 44
 DeVault, David, 887
 Developing Task Specific Sensing Strategies Using Reinforcement Learning, 738
 Dialogue-Based Tutoring System for Beginning Programming, A, 449
 (Dis)Belief Change and Feedback Loop, 856
 Discovering Causal Chains by Integrating Plan Recognition and Sequential Pattern Mining, 719
 Djelouah, R., 325
 dos Santos, Andre L. M., 544
 Dowding, John, 732
 Druzdel, Marek, 880
 Duarte, Michael, 361
 Duval, B., 325
 Dynamic Agent-Ordering and Nogood-Repairing in Distributed Constraint Satisfaction Problems, 20
 Ed-Dbali, AbdelAli, 275
 Effective Indexing and Retrieval Approach for Temporal Cases, An, 190
 Egenhofer, Max J., 795
 Ekenberg, Love, 850
 Emotionally Intelligent Tutoring Systems (EITS), 251
 Empirical Study of Probability Elicitation under Noisy-OR Assumption, An, 880
 Erben, Radek, 257
 Ericsson, Stina, 893
 Etheredge, Jim, 635
 Evaluation and Refinement of Intelligent Systems, 318
 Evanco, William, 207
 Evolutionary Neural Learning Algorithm for Offline Cursive Handwriting Words with Hamming Network Lexicon, An, 646
 Experience-Based Resource Description and Selection in Multiagent Information Retrieval, 8
 Experimental Assessment of Direct Versus Interlingual Translation for Cross-Language Information Retrieval, An, 55
 Expert Systems, 355
 Exploiting Visual Salience for the Generation of Referring Expressions, 911
 Fahmy, Adel Iskander, 826
 Faster Algorithm for Generalized Multiple-Instance Learning, A, 550
 Fekete, Jean-Daniel, 263
 Feng, Ying, 640
 Fernlund, Hans K., 587
 Fernández, Susana, 713
 Fesmire, Francis M., 115
 Fiedler, Armin, 929
 Finding Partners to Form Information Sharing Networks in Open Multi-Agent Systems, 412
 Florida AI Research Society Officers and FLAIRS-04 Committees, xix
 Fong, Long, 93
 Formation of Probabilistic Concepts through Observations Containing Discrete and Continuous Attributes, 526
 Foster, Mary Ellen, 917

- Foulloy, L., 122
 Fowdar, Jay, 838
 Franklin, Judy A., 33
 Frasson, Claude, 251, 442
 Freund, Michael, 491
 Functional and Behavioral Knowledge-based Implementation for Intelligent Sensors/Actuators, A, 122
 Furtado, João José Vasco, 526
- Gaborski, Roger S., 232
 Gaizauskas, Robert, 61
 Galitsky, Boris, 239, 496
 Galushka, Mykola, 190
 Gaspar, Graça, 245
 Gene Expression Data Classification with Revised Kernel Partial Least Squares Algorithm, 104
 Generating Tailored, Comparative Descriptions in Spoken Dialogue, 917
 Generating Tutorial Feedback with Affect, 923
 Genetic Algorithms, 367
 Georgiopoulos, Michael, 623
 Gerrits, Rik, 343
 Ghoniem, Mohammad, 263
 Ghosh, Moumita, 646
 Ghosh, Ranadhri, 646
 Goldstone, Robert L., 640
 Gómez, Sergio Alejandro, 393
 Gonzalez, Avelino J., 587, 599, 603, 623
 Gopalakrishnan, Kasthurirangan, 652
 Graham, Jeff, 732
 Green, Nancy, 899
 Guesgen, Hans W., 783
 Gupta, Kalyan Moy, 172
- Hadlock, Frank, 356
 Hafner, Robert, 67
 Hahn, Udo, 55
 Hamilton, Howard J., 312
 Hannon, Charles, 405
 Harris, Harlan D., 74
 Harter, Derek, 424
 Hendershot, Zachary V., 368
- Hexmoor, Henry, 128
 Hickey, Timothy J., 269
 Hidden Layer Training via Hessian Matrix Information, 688
 Highway Vehicle Classification by Probabilistic Neural Networks, 664
 Holder, Lawrence B., 14, 300
 Holvoet, Tom, 764
 Hong, Theodore W., 49
 Horacek, Helmut, 929
 Huber, Manfred, 509, 738
 Hussein, Ahmed, 538
 Hybrid Approach to Pattern Classification Using Neural Networks and Defeasible Argumentation, A, 393
- Identifying Critical Factors in Case-Based Prediction, 207
 Improved Situation Interpretation Metrics in Context-Based Reasoning Simulations, 599
 In-Depth Analysis of Similarity Knowledge and Metric Contributions to Recommender Performance, 184
 Indirect Encoding Evolutionary Learning Algorithm for the Multilayer Morphological Perceptron, 374
 Inducing Fuzzy Decision Trees in Nondeterministic Domains Using CHAID, 838
 Inferring the Context for Evaluating Physics Algebraic Equations when the Scaffolding Is Removed, 455
 Integrated Intelligent Systems, 386
 Intelligent Agent Systems, 411
 Intelligent Control of Closed-Loop Sedation in Simulated ICU Patients, 109
 Intelligent Tutoring, 448
 Interactive Refinement of a Knowledge Base, 325
 Intermediate Consistencies by Delaying Expensive Propagators, 275
 Invariance of MLP Training to Input Feature Decorrelation, 682
- Invited Talks, xxiii
 Ioerger, Thomas R., 430
 Iterative Improvement of Neural Classifiers, 700
- Janzen, M., 874
 Jendreck, Martin, 343
 Johansson, Jim, 850
 Johansson, Ulf, 658
 Jordan, Pamela W., 905
 Jussien, Narendra, 263
 Justification of Customer Complaints Using Emotional States and Mental Actions, 239
- Kaltenbach, Marc, 442
 Kaskiris, Charis, 732
 Kayser, Daniel, 502
 Kelbassa, Hans-Werner, 331
 Kelleher, John, 911
 Khellaf, Faïza, 832
 Kiefer, Sarah M., 74
 Kim, Hyoung-rae, 287
 Kim, Sunjung, 38
 Knauf, Rainer, 337, 343
 Knowledge Acquisition, 466
 Knowledge Engineering of Creative Musical Expressions Using Carnatic Music Ideology, 44
 Knowledge-Based Constraint Satisfaction for Spatial Reasoning, 807
 König, Rikard, 658
 Kozma, Robert, 424
 Krishna, K. Madhava, 128
 Krishnasamy, Kaushik, 361
 Kurbad, Torsten, 337
 Kwigizile, Valerian, 664
 Kwok, Hing-Wah, 751
 Kyburg, Jr., Henry E., 844
- Lallouet, Arnaud, 275
 Lane, H. Chad, 449
 Larsson, Aron, 850
 Learning States and Rules for Time Series Anomaly Detection, 306
 Lee, Yugyung, 399, 472

- Legtchenko, Andreï, 275
 Lemon, Oliver, 917
 Lever, Jonathan, 281
 Li, Jiang, 682, 688, 700, 706
 Li, Xiangshang, 134
 Li, Yuhua, 820
 Liew, C. W., 455
 Lin, T., 862
 Liu, Li-Min, 700
 Liu, Zhenqiu, 104
 Local Propagation in Bayesian Networks Versus Semi-Join Program in Databases, 868
 Local Search/Constraint Propagation Hybrid for a Network Routing Problem, A, 281
 Logic and Categorization in AI, 478
 Loia, Vincenzo, 436
 Loiseau, S., 325
 Lopez, Antonio M., Jr., 80
- Machine Learning, 508
 Maida, Anthony S., 676
 Manry, Michael T., 682, 688, 700, 706
 Markó, Kornél, 55
 Marko, Zdravko xvii
 Marquois, Emilie, 581
 McBride, Brent T., 520
 McCalla, Gordon I., 86
 McLean, David, 387, 515, 820
 Meira, S. R. L., 670
 Meisels, Amnon, 776
 Menkov, Vladimir, 640
 Mertens, Koenraad, 764
 Method Based on RBF-DDA Neural Networks for Improving Novelty Detection in Time Series, A, 670
 Method for Measuring Sentence Similarity and Its Application to Conversational Agents, A, 820
 Mining Bayesian Networks to Forecast Adverse Outcomes Related to Acute Coronary Syndrome, 115
 Mining On-line Sources for Definition Knowledge, 61
- Mitra, Debasis, 287
 Mixed-Initiative Case Replay, 166
 Mobile Agents Integrated Field Test: Mars Desert Research Station, April 2003, The, 732
 Modeling Selective Perception of Complex, Natural Scenes, 226
 Modeling the Real World through Contexts, 574
 Mokhtari, Aïcha, 832
 Moore, Brett L., 109
 Moore, Frank W., 368
 Moore, Johanna D., 917, 923
 Morgado, Luís, 245
 Mostéfaoui, Ghita Kouadri, 594
 Mueller, Erik T., 147
 Muldoon, Conor, 2
 Multi-Attribute Decision Tree Evaluation in Imprecise and Uncertain Domains, 850
 MultiDE: A Simple, Powerful Differential Evolution Algorithm for Finding Multiple Global Optima, 368
 Multimodal Function Optimization Using Local Ruggedness Information, 380
 Muñoz-Avila, Héctor, 719
 Music Life Cycle Support through Ontologies, 27
 Mussa, Renatus, 664
- Natural Language Generation and Discourse Context: Computing Distractor Sets from the Focus Stack, 887
 Nedas, Konstantinos A., 795
 Neto, F. B. L., 670
 Neural Network Applications, 610
 New Algorithm for Singleton Arc Consistency, A, 257
 New Approach for Heterogeneous Hybridization of Constraint Satisfaction Search Algorithms, A, 287
 New Filtering Model Towards an Intelligent Guide Agent, A, 442
 Niklasson, Lars, 658
 Nilsson, Markus, 178
- Nouioua, Farid, 502
 Novischi, Adrian, 467
 Novobilski, Andrew J., 115
- Ochs, Magalie, 251
 O'Hare, Gregory M. P., 2
 Oliveira, A. L. I., 670
 Online-learning and Attention-based Obstacle Avoidance Using a Range Finder, 744
 Onoyama, Takashi, 337
 Optimality of Naive Bayes, The, 562
 Ortiz, Jorge L., 374
 O'Shea, James, 820
 O'Sullivan, Derry, 184
- Package Planning with Graphical Models, 874
 Palakal, Mathew, 93
 Palaniappan, C. T., 44
 Park, Jisun, 412
 Parkhomenko, Olena, 399
 Partitioned Fuzzy ARTMAP Implementation for Fast Processing of Large Databases on Sequential Machines, A, 623
 Pascu, Anca, 491
 Pasupuleti, Subbarao, 128
 Patel, Chintan, 399, 472
 Pathological Dependency Cycles in State-Space Planning: When Control Rules Fail, 757
 Pattern Recognition/Classification, 694
 Patterson, David, 190, 532
 Pedagogically Guided Paper Recommendation for an Evolving Web-Based Learning System, On the, 86
 Pedagogy of Artificial Intelligence: A Survey of Faculty Who Teach Introductory AI, The, 74
 Pedrycz, Witold, 436
 Perrussel, Laurent, 856
 Personalization Using Hybrid Data Mining Approaches in E-Business Applications, 399
 Peterson, Gilbert L., 520
 Phelan, Donnacha, 2

- Physical Approximations for Urban Fire Spread Simulations, 783
- Pidaparti, Ramana, 93
- PIModel: A Pragmatic ITS Model Based on Instructional Automata Theory, 460
- Piñeiro, Roberto C., 374
- Pino, J. A., 575
- Planning, 712
- Pomerol, J.-Ch., 575
- Poprat, Michael, 55
- Porayska-Pomsta, Kaska, 923
- Power of Experience: On the Usefulness of Validation Knowledge, The, 337
- Preface, xvii
- Proactive Utilization of Proximity-Oriented Information Inside an Agent-based Framework, 436
- Product-based Causal Networks and Quantitative Possibilistic Bases, 832
- Prototype Based Classifier Design with Pruning, 706
- Puppe, Frank, 154, 319
- Pyeatt, Larry D., 109
- Quasny, Todd M., 109
- Rajendran, Srividhya, 738
- Ram, S. Ganesh, 44
- Ramakrishnan, M. S., 44
- Random Subspacing for Regression Ensembles, 532
- Rathi, Runu, 300
- Razek, Mohammed Abdel, 442
- Real-Time Sensor Fusion Framework for Distributed Intelligent Sensors, 134
- Reasoning about Beliefs, Observability, and Information Exchange in Teamwork, 430
- Reasoning on Spatial Constraints over Regions, 801
- Rebouças, Ricardo Batista, 526
- Recurrent Neural Networks and Pitch Representations for Music Tasks, 33
- Rich, Charles, 887
- Ringwelski, Georg, 293
- Robotics, 725
- Rooney, Niall, 190, 532
- Rowland, Benjamin, 676
- Rule Extraction from Dynamic Cell Structure Neural Networks Used in a Safety Critical Application, 629
- Rule-Based Semiautomated Approach to Building Natural Language Question Answering (NLQA) Systems, A, 361
- Saggion, Horacio, 61
- Sahasrabudhe, Shreeram, 719
- Salvador, Stan, 306
- Sanchez, Roberto C., 599
- Santos, Eugene Jr., 538
- Satellite Data Exploitation Design Architecture, 99
- Satisfying Varying Retrieval Requirements in Case-Based Intelligent Directory Assistance, 160
- Sattar, Abdul, 20
- Schulz, Stefan, 55
- Scordilis, Michael S., 826
- Scott, Stephen D., 550
- Search, 750
- SECLIPS: A Structured English Interface for an Expert System Shell, 356
- Secure Multiparty Computations and Distributed Constraint Reasoning, 763
- Seipel, Dietmar, 319
- Selekwa, Majura, 664
- Self, Lance, 99
- Semisupervised Sequence Classification with HMMs, 568
- Senatore, Sabrina, 436
- Sessa, Maria I., 436
- Shapiro, Joel A., 455
- Shi, Wenqi, 154
- Si, Jinxin, 460
- Sidner, Candace L., 887
- Sierhuis, Maarten, 732
- Silaghi, Marius C., 770
- Simina, Marin, 141
- Simpson, Robert L. Jr., 213
- Simulating Biological Motion Perception Using a Recurrent Neural Network, 617
- Singh, Abhishek, 544
- Sinzinger, Eric D., 109
- Skias, Spiro, 629
- Smith, D. E., 455
- Smyth, Barry, 184
- Soh, Leen-Kiat, 8, 196
- Sollenborn, Mikael, 178
- Sonnemaker, David, 115
- Sos: Accommodation on the Fly with ACCESS, 2
- Spatio-Temporal Reasoning, 782
- Spatiotemporal Novelty Detection Using Resonance Networks, 676
- Speaker Verification Using Speaker-Specific Prompts, 826
- Speech Recognition and Understanding, 819
- Splitting Ratios: Metric Details of Topological Line-Line Relations, 795
- Spreeuwenberg, Silvie, 343
- State Space Reduction for Hierarchical Reinforcement Learning, 509
- Stensrud, Brian S., 603
- Step Out of the Ivory Tower: Experiences with Adapting a Test Case Generation Idea to Business Rules, A, 343
- Strahan, Robin, 2
- Strategies for Fuzzy Inference within Classifier Systems, 387
- Structure Discovery from Sequential Data, 300
- Sui, Yuefei, 460
- Supekar, Kaustubh, 472
- Surveillance System based on Multiple Mobile Sensors, A, 128
- Takahashi, Kazuko, 801
- Tang, Tiffany Y., 86
- Tao, Qingping, 550
- Tappan, Dan, 807
- Taylor, Brian, 629
- Teredesai, Ankur M., 232

- Testing the Integrity of Non-monotonic Knowledge Bases Containing Semi-Normal Defaults, 349
- Theory for Convex Interval Relations Including Unbounded Intervals, A, 789
- Thévenin, Jean-Marc, 856
- Thompson, Marshall R., 652
- Thornton, John, 20
- Tool for Satisfiability-Based Commonsense Reasoning in the Event Calculus, A, 147
- Towards a Linguistically Motivated Ontology of Motion: Situation Based Synsets of Motion Verbs, 813
- Towards a Universal Web Wrapper, 49
- Towards Acquiring Case Indexing Taxonomies From Text, 172
- Towards an Embodied and Situated AI, 726
- Transductive LSI for Short Text Classification Problems, 556
- Trinh, Viet C., 603
- Truth Is in There—Rule Extraction from Opaque Models Using Genetic Programming, The, 658
- Tsovaltzi, Dimitra, 929
- Tsuruta, Setsuo, 337
- Tsymbol, Alexey, 532
- Tumarkina, Irina, 239
- Typicality, Contextual Inferences and Object Determination Logic, 491
- Tyree, Kim S., 732
- Uehara, Kenichi, 337
- Uncertain Reasoning, 831
- Unifying Emotion and Cognition: The Flow Model Approach, 245
- Use of a Modified Backpropagation Neural Network for Random Access to Data Files on Secondary Storage, The, 635
- Use of Default Reasoning for Disambiguation under Question Answering, 496
- User Modeling and HCI Approaches in Natural Language Generation, 886
- Using Analytic CLP to Model and Analyze Hybrid Systems, 269
- Using Automated Tests and Restructuring Methods for an Agile Development of Diagnostic Knowledge Systems, 319
- Using HCI Experiments to Validate Intelligent Multimedia Cue Generation, 899
- Using Previous Experience for Learning Planning Control Knowledge, 713
- Using Privacy Loss to Guide Decisions During Distributed CSP Search, 770
- Using Student Explanations as Models for Adapting Tutorial Dialogue, 905
- Vaingankar, Vishal S., 232
- van Genabith, Josef, 911
- van Hoof, Ron, 732
- VanLehn, Kurt, 449
- Varges, Sebastian, 923
- VENUS: A System for Novelty Detection in Video Streams with Learning, 232
- Verner, June, 207
- Vetulani, Zygmunt, 813
- VISEXP: Visualizing Constraint Solver Dynamics Using Explanations, 263
- Wallace, Richard J., 293, 770
- Waller, Michael, 207
- Wang, Xin, 312
- Watson, Ian, 202
- Weber, Rosina, 207
- Wei, John, 700
- Weng, Juyang, 744
- Wermter, Joachim, 55
- Whitaker, Elizabeth T., 213
- White, Michael, 917
- Wilson, David C., 184
- Wittenberg, David K., 269
- Wong, Edwin, 405
- Wong, Michael, 868
- Wong, S. K. M., 862
- Wu, Dan, 868
- Xiang, Y., 874
- Yearwood, John, 646
- Youngblood, G. Michael, 14
- Yu, Changhua, 682, 688, 700, 706
- Yuan, Xiaohui, 134, 380
- Yuan, Xiaojing, 134
- Yue, Xiaoli, 460
- Zagorecki, Adam, 880
- Zelikovitz, Sarah, 67, 556
- Zeng, Shuqing, 744
- Zhang, Harry, 562
- Zhang, Jian, 380
- Zhang, Yongxin, 826
- Zhong, Shi, 568
- Zhou, Lingzhong, 20
- Zinn, Claus, 923
- Zivan, Roie, 776
- Zlatareva, Neli P., 349