

IEEE TRANSACTIONS ON NEURAL NETWORKS AND LEARNING SYSTEMS

A PUBLICATION OF THE IEEE COMPUTATIONAL INTELLIGENCE SOCIETY

<http://cis.ieee.org/tnnls>



OCTOBER 2021

VOLUME 32

NUMBER 10

ITNNEP

(ISSN 2162-237X)

REGULAR PAPERS

PM _{2.5} Monitoring: Use Information Abundance Measurement and Wide and Deep Learning	4278
..... <i>K. Gu, H. Liu, Z. Xia, J. Qiao, W. Lin, and D. Thalmann</i>	
Attention in Natural Language Processing	4291
..... <i>A. Galassi, M. Lippi, and P. Torroni</i>	
Open Set Domain Adaptation: Theoretical Bound and Algorithm	4309
..... <i>Z. Fang, J. Lu, F. Liu, J. Xuan, and G. Zhang</i>	
Distributed Min-Max Learning Scheme for Neural Networks With Applications to High-Dimensional Classification	4323
..... <i>K. Raghavan, S. Garg, S. Jagannathan, and V. A. Samaranayake</i>	
Off-Policy Reinforcement Learning for Tracking in Continuous-Time Systems on Two Time Scales	4334
..... <i>W. Xue, J. Fan, V. G. Lopez, Y. Jiang, T. Chai, and F. L. Lewis</i>	
Adaptive Developmental Resonance Network	4347
..... <i>G.-M. Park and J.-H. Kim</i>	
Rich Visual Knowledge-Based Augmentation Network for Visual Question Answering	4362
..... <i>L. Zhang, S. Liu, D. Liu, P. Zeng, X. Li, J. Song, and L. Gao</i>	
Accelerated Proximal Subsampled Newton Method	4374
..... <i>H. Ye, L. Luo, and Z. Zhang</i>	
Bayesian Cycle-Consistent Generative Adversarial Networks via Marginalizing Latent Sampling	4389
..... <i>H. You, Y. Cheng, T. Cheng, C. Li, and P. Zhou</i>	
Analogy-Detail Networks for Object Recognition	4404
..... <i>X. Tao, X. Hong, W. Shi, X. Chang, and Y. Gong</i>	
An Effective Hybrid Learning Model for Real-Time Event Summarization	4419
..... <i>M. Yang, Q. Qu, Y. Shen, Z. Zhao, X. Chen, and C. Li</i>	
Synchronous Fault-Tolerant Near-Optimal Control for Discrete-Time Nonlinear PE Game	4432
..... <i>Y. Yuan, P. Zhang, and X. Li</i>	
Online Learning With Adaptive Rebalancing in Nonstationary Environments	4445
..... <i>K. Malialis, C. G. Panayiotou, and M. M. Polycarpou</i>	
IAUnet: Global Context-Aware Feature Learning for Person Reidentification	4460
..... <i>R. Hou, B. Ma, H. Chang, X. Gu, S. Shan, and X. Chen</i>	
Antidecay LSTM for Siamese Tracking With Adversarial Learning	4475
..... <i>F. Zhao, T. Zhang, Y. Wu, M. Tang, and J. Wang</i>	
Terminal Sliding Mode Control of MEMS Gyroscopes With Finite-Time Learning	4490
..... <i>Y. Guo, B. Xu, and R. Zhang</i>	

(Contents Continued on Page 4277)



EDP: An Efficient Decomposition and Pruning Scheme for Convolutional Neural Network Compression	X. Ruan, Y. Liu, C. Yuan, B. Li, W. Hu, Y. Li, and S. Maybank	4499
Inductive Structure Consistent Hashing via Flexible Semantic Calibration	Z. Zhang, L. Liu, Y. Luo, Z. Huang, F. Shen, H. T. Shen, and G. Lu	4514
An Uplink Communication-Efficient Approach to Featurewise Distributed Sparse Optimization With Differential Privacy	J. Lou and Y.-m. Cheung	4529
Optimal Impulsive Control Using Adaptive Dynamic Programming and Its Application in Spacecraft Rendezvous ...	A. Heydari	4544
Robot Motor Skill Transfer With Alternate Learning in Two Spaces	J. Fu, X. Teng, C. Cao, Z. Ju, and P. Lou	4553
Disturbance-Aware Neuro-Optimal System Control Using Generative Adversarial Control Networks	K.-F. Chu, A. Y. S. Lam, C. Fan, and V. O. K. Li	4565
Robust Formation Control for Cooperative Underactuated Quadrotors via Reinforcement Learning	W. Zhao, H. Liu, and F. L. Lewis	4577
Self-Organizing Nebulous Growths for Robust and Incremental Data Visualization	D. A. Senanayake, W. Wang, S. H. Naik, and S. Halgamuge	4588
Modeling and Control of Hybrid 3-D Gaits of Snake-Like Robots	Z. Cao, D. Zhang, and M. Zhou	4603
Nonergodic Complexity of Proximal Inertial Gradient Descents	T. Sun, L. Qiao, and D. Li	4613
A Minibatch Proximal Stochastic Recursive Gradient Algorithm Using a Trust-Region-Like Scheme and Barzilai–Borwein Stepsizes	T. Yu, X.-W. Liu, Y.-H. Dai, and J. Sun	4627
Learning Automata-Based Multiagent Reinforcement Learning for Optimization of Cooperative Tasks	Z. Zhang, D. Wang, and J. Gao	4639
Bearing-Based Adaptive Neural Formation Scaling Control for Autonomous Surface Vehicles With Uncertainties and Input Saturation	Y. Lu, C. Wen, T. Shen, and W. Zhang	4653
Explainable Uncertainty-Aware Convolutional Recurrent Neural Network for Irregular Medical Time Series	Q. Tan, M. Ye, A. J. Ma, B. Yang, T. C.-F. Yip, G. L.-H. Wong, and P. C. Yuen	4665
Model-Driven Architecture of Extreme Learning Machine to Extract Power Flow Features	Q. Gao, Z. Yang, J. Yu, W. Dai, X. Lei, B. Tang, K. Xie, and W. Li	4680
Feature Interaction for Streaming Feature Selection	P. Zhou, P. Li, S. Zhao, and X. Wu	4691
Neural-Network-Based Adaptive DSC Design for Switched Fractional-Order Nonlinear Systems	S. Sui, C. L. P. Chen, and S. Tong	4703
Spatiotemporal Behind-the-Meter Load and PV Power Forecasting via Deep Graph Dictionary Learning	M. Khodayar, G. Liu, J. Wang, O. Kaynak, and M. E. Khodayar	4713
Synaptic Weight Evolution and Charge Trapping Mechanisms in a Synaptic Pass-Transistor Operation With a Direct Potential Output	Y. Kang, J. Jang, D. Cha, and S. Lee	4728
<hr/>		
BRIEF PAPERS		
Class-Variant Margin Normalized Softmax Loss for Deep Face Recognition	W. Zhang, Y. Chen, W. Yang, G. Wang, J.-H. Xue, and Q. Liao	4742
Gated Value Network for Multilabel Classification ...	Y. Hou, S. Wan, F. Bao, Z. Ren, Y. Dong, Q. Dai, and Y. Deng	4748
Adaptive Propagation Graph Convolutional Network	I. Spinelli, S. Scardapane, and A. Uncini	4755
Event-Driven Synchronization of Switched Complex Networks: A Reachable-Set-Based Design	H. Sang and J. Zhao	4761
