

Shengli Xie

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

7,220
citations

57719

44
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54882

84
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103
all docs

103
docs citations

103
times ranked

6166
citing authors

#	ARTICLE	IF	CITATIONS
1	Cooperative Federated Learning and Model Update Verification in Blockchain-Empowered Digital Twin Edge Networks. IEEE Internet of Things Journal, 2022, 9, 11154-11167.	5.5	32
2	Fast multiplicative algorithms for symmetric nonnegative tensor factorization. Neurocomputing, 2022, 500, 255-267.	3.5	2
3	Task-Container Matching Game for Computation Offloading in Vehicular Edge Computing and Networks. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 6242-6255.	4.7	38
4	Distributed Demand Response for Multienergy Residential Communities With Incomplete Information. IEEE Transactions on Industrial Informatics, 2021, 17, 547-557.	7.2	16
5	NOMA-Enabled Cooperative Computation Offloading for Blockchain-Empowered Internet of Things: A Learning Approach. IEEE Internet of Things Journal, 2021, 8, 2364-2378.	5.5	47
6	Chance Constrained Scheduling and Pricing for Multi-Service Battery Energy Storage. IEEE Transactions on Smart Grid, 2021, 12, 5030-5042.	6.2	9
7	Efficient Workload Allocation and User-Centric Utility Maximization for Task Scheduling in Collaborative Vehicular Edge Computing. IEEE Transactions on Vehicular Technology, 2021, 70, 3773-3787.	3.9	45
8	Fast nonnegative tensor ring decomposition based on the modulus method and low-rank approximation. Science China Technological Sciences, 2021, 64, 1843-1853.	2.0	4
9	Underdetermined blind source separation of speech mixtures unifying dictionary learning and sparse representation. International Journal of Machine Learning and Cybernetics, 2021, 12, 3573-3583.	2.3	6
10	FedParking: A Federated Learning Based Parking Space Estimation With Parked Vehicle Assisted Edge Computing. IEEE Transactions on Vehicular Technology, 2021, 70, 9355-9368.	3.9	54
11	MEC-Driven Fast Deformation Monitoring Based on GNSS Signal. Wireless Communications and Mobile Computing, 2021, 2021, 1-9.	0.8	2
12	Blind Separation of Heart Sound Convulsive Mixtures Utilizing Independent Vector Analysis. , 2021, , .		0
13	Coalition Game Approach for Electricity Sharing in Multi-Energy Multi-Microgrid Network. , 2021, , .		2
14	Eliminating the Permutation Ambiguity of Convulsive Blind Source Separation by Using Coupled Frequency Bins. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 589-599.	7.2	13
15	Joint Transaction Relaying and Block Verification Optimization for Blockchain Empowered D2D Communication. IEEE Transactions on Vehicular Technology, 2020, 69, 828-841.	3.9	30
16	Deep graph regularized non-negative matrix factorization for multi-view clustering. Neurocomputing, 2020, 390, 108-116.	3.5	66
17	Online Control and Near-Optimal Algorithm for Distributed Energy Storage Sharing in Smart Grid. IEEE Transactions on Smart Grid, 2020, 11, 2552-2562.	6.2	57
18	Cooperative Offloading and Resource Management for UAV-Enabled Mobile Edge Computing in Power IoT System. IEEE Transactions on Vehicular Technology, 2020, 69, 12229-12239.	3.9	105

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19	Cooperative P2P Energy Trading in Active Distribution Networks: An MILP-Based Nash Bargaining Solution. IEEE Transactions on Smart Grid, 2020, , 1-1.	6.2	54
20	A Multi-Dimensional Contract Approach for Data Rewarding in Mobile Networks. IEEE Transactions on Wireless Communications, 2020, 19, 5779-5793.	6.1	27
21	Off-policy learning for adaptive optimal output synchronization of heterogeneous multi-agent systems. Automatica, 2020, 119, 109081.	3.0	49
22	Multi-Resource Allocation of Shared Energy Storage: A Distributed Combinatorial Auction Approach. IEEE Transactions on Smart Grid, 2020, 11, 4105-4115.	6.2	58
23	Incentivizing Resource Cooperation for Blockchain Empowered Wireless Power Transfer in UAV Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 15828-15841.	3.9	19
24	Resource Allocation for Edge Computing-Based Vehicle Platoon on Freeway: A Contract-Optimization Approach. IEEE Transactions on Vehicular Technology, 2020, 69, 15988-16000.	3.9	28
25	Deep Reinforcement Learning for Offloading and Resource Allocation in Vehicle Edge Computing and Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 11158-11168.	3.9	339
26	ADMM Empowered Distributed Computational Intelligence for Internet of Energy. IEEE Computational Intelligence Magazine, 2019, 14, 42-51.	3.4	15
27	Underdetermined Blind Source Separation of Speech Mixtures Based on K-means Clustering. , 2019, , .		10
28	Incentive Mechanism for Reliable Federated Learning: A Joint Optimization Approach to Combining Reputation and Contract Theory. IEEE Internet of Things Journal, 2019, 6, 10700-10714.	5.5	520
29	Blockchain Empowered Wireless Power Transfer for Green and Secure Internet of Things. IEEE Network, 2019, 33, 164-171.	4.9	44
30	Computing Resource Trading for Edge-Cloud-Assisted Internet of Things. IEEE Transactions on Industrial Informatics, 2019, 15, 3661-3669.	7.2	96
31	Graph Regularized Nonnegative Tucker Decomposition for Tensor Data Representation. , 2019, , .		7
32	Under-Determined Convolutional Blind Source Separation Combining Density-Based Clustering and Sparse Reconstruction in Time-Frequency Domain. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 3015-3027.	3.5	27
33	Reinforcement Learning-Based Adaptive Optimal Exponential Tracking Control of Linear Systems With Unknown Dynamics. IEEE Transactions on Automatic Control, 2019, 64, 4423-4438.	3.6	134
34	Efficient Mobility-Aware Task Offloading for Vehicular Edge Computing Networks. IEEE Access, 2019, 7, 26652-26664.	2.6	143
35	Source Number Estimation and Effective Channel Order Determination Based on Higher-Order Tensors. Circuits, Systems, and Signal Processing, 2019, 38, 5393-5408.	1.2	6
36	Intelligent Edge Computing for IoT-Based Energy Management in Smart Cities. IEEE Network, 2019, 33, 111-117.	4.9	368

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37	Credit-Based Payments for Fast Computing Resource Trading in Edge-Assisted Internet of Things. IEEE Internet of Things Journal, 2019, 6, 6606-6617.	5.5	56
38	Underdetermined convolutive blind separation of sources integrating tensor factorization and expectation maximization. , 2019, 87, 145-154.		19
39	MEC-Driven UAV-Enabled Routine Inspection Scheme in Wind Farm Under Wind Influence. IEEE Access, 2019, 7, 179252-179265.	2.6	22
40	Dynamic Scheduling of Multi-Type Battery Charging Stations for EV Battery Swapping. , 2019, , .		4
41	Underdetermined Reverberant Audio-Source Separation Through Improved Expectationâ€™Maximization Algorithm. Circuits, Systems, and Signal Processing, 2019, 38, 2877-2889.	1.2	11
42	Blockchain for Secure and Efficient Data Sharing in Vehicular Edge Computing and Networks. IEEE Internet of Things Journal, 2019, 6, 4660-4670.	5.5	547
43	Topology-Aware Vehicle-to-Grid Energy Trading for Active Distribution Systems. IEEE Transactions on Smart Grid, 2019, 10, 2137-2147.	6.2	64
44	Auction Mechanisms for Energy Trading in Multi-Energy Systems. IEEE Transactions on Industrial Informatics, 2018, 14, 1511-1521.	7.2	82
45	Learning the Hierarchical Parts of Objects by Deep Non-Smooth Nonnegative Matrix Factorization. IEEE Access, 2018, 6, 58096-58105.	2.6	27
46	Underdetermined Blind Source Separation Combining Tensor Decomposition and Nonnegative Matrix Factorization. Symmetry, 2018, 10, 521.	1.1	11
47	ADMM-Based Distributed Auction Mechanism for Energy Hub Scheduling in Smart Buildings. IEEE Access, 2018, 6, 45635-45645.	2.6	50
48	Modeling the Tracking Area Planning Problem Using an Evolutionary Multi-Objective Algorithm. IEEE Computational Intelligence Magazine, 2017, 12, 29-41.	3.4	13
49	On Demand Response Management Performance Optimization for Microgrids Under Imperfect Communication Constraints. IEEE Internet of Things Journal, 2017, 4, 881-893.	5.5	26
50	Blind Source Separation. , 2017, , .		1
51	Balancing Power Demand Through EV Mobility in Vehicle-to-Grid Mobile Energy Networks. IEEE Transactions on Industrial Informatics, 2016, 12, 79-90.	7.2	145
52	Fair Energy Scheduling for Vehicle-to-Grid Networks Using Adaptive Dynamic Programming. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 1697-1707.	7.2	85
53	Linked Component Analysis From Matrices to High-Order Tensors: Applications to Biomedical Data. Proceedings of the IEEE, 2016, 104, 310-331.	16.4	148
54	Optimized projections for nonnegative linear reconstruction classification. Neurocomputing, 2016, 173, 1743-1751.	3.5	0

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55	Optimal WCDMA network planning by multiobjective evolutionary algorithm with problem-specific genetic operation. Knowledge and Information Systems, 2015, 45, 679-703.	2.1	22
56	Efficient Nonnegative Tucker Decompositions: Algorithms and Uniqueness. IEEE Transactions on Image Processing, 2015, 24, 4990-5003.	6.0	135
57	Toward secure energy harvesting cooperative networks. , 2015, 53, 114-121.		35
58	Electricity Cost Minimization for a Microgrid With Distributed Energy Resource Under Different Information Availability. IEEE Transactions on Industrial Electronics, 2015, 62, 2571-2583.	5.2	126
59	Exploiting temporal and spatial diversities for spectrum sensing and access in cognitive vehicular networks. Wireless Communications and Mobile Computing, 2015, 15, 2079-2094.	0.8	11
60	Nonnegative Matrix and Tensor Factorizations : An algorithmic perspective. IEEE Signal Processing Magazine, 2014, 31, 54-65.	4.6	91
61	PHEV Charging and Discharging Cooperation in V2G Networks: A Coalition Game Approach. IEEE Internet of Things Journal, 2014, 1, 578-589.	5.5	96
62	On Solving WCDMA Network Planning Using Iterative Power Control Scheme and Evolutionary Multiobjective Algorithm [Application Notes]. IEEE Computational Intelligence Magazine, 2014, 9, 44-52.	3.4	33
63	Peak-to-Average Ratio Constrained Demand-Side Management With Consumer's Preference in Residential Smart Grid. IEEE Journal on Selected Topics in Signal Processing, 2014, 8, 1084-1097.	7.3	179
64	A second-order blind equalization method robust to ill-conditioned SIMO FIR channels. , 2014, 32, 57-66.		11
65	Projection-Pursuit-Based Method for Blind Separation of Nonnegative Sources. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 47-57.	7.2	18
66	Energy-Efficient Hybrid Spectrum Access Scheme in Cognitive Vehicular Ad hoc Networks. IEEE Communications Letters, 2013, 17, 329-332.	2.5	28
67	Accelerated Canonical Polyadic Decomposition Using Mode Reduction. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 2051-2062.	7.2	18
68	Fast Nonnegative Matrix/Tensor Factorization Based on Low-Rank Approximation. IEEE Transactions on Signal Processing, 2012, 60, 2928-2940.	3.2	182
69	Asynchronous cooperative spectrum sensing in multi-hop cognitive radio networks. , 2012, , .		2
70	Cognitive machine-to-machine communications: visions and potentials for the smart grid. IEEE Network, 2012, 26, 6-13.	4.9	346
71	Nonnegative Blind Source Separation by Sparse Component Analysis Based on Determinant Measure. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 1601-1610.	7.2	45
72	Time-Frequency Approach to Underdetermined Blind Source Separation. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 306-316.	7.2	102

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73	Energy-Efficient Spectrum Discovery for Cognitive Radio Green Networks. Mobile Networks and Applications, 2012, 17, 64-74.	2.2	17
74	Minimum-Volume-Constrained Nonnegative Matrix Factorization: Enhanced Ability of Learning Parts. IEEE Transactions on Neural Networks, 2011, 22, 1626-1637.	4.8	125
75	Symmetric Nonnegative Matrix Factorization: Algorithms and Applications to Probabilistic Clustering. IEEE Transactions on Neural Networks, 2011, 22, 2117-2131.	4.8	202
76	Online Blind Source Separation Using Incremental Nonnegative Matrix Factorization With Volume Constraint. IEEE Transactions on Neural Networks, 2011, 22, 550-560.	4.8	129
77	Mixing Matrix Estimation From Sparse Mixtures With Unknown Number of Sources. IEEE Transactions on Neural Networks, 2011, 22, 211-221.	4.8	90
78	Blind Spectral Unmixing Based on Sparse Nonnegative Matrix Factorization. IEEE Transactions on Image Processing, 2011, 20, 1112-1125.	6.0	149
79	Cognitive radio based hierarchical communications infrastructure for smart grid. IEEE Network, 2011, 25, 6-14.	4.9	235
80	Cross-Layer Optimized Call Admission Control in Cognitive Radio Networks. Mobile Networks and Applications, 2010, 15, 610-626.	2.2	22
81	A Parallel Cooperative Spectrum Sensing in Cognitive Radio Networks. IEEE Transactions on Vehicular Technology, 2010, 59, 4079-4092.	3.9	118
82	Detecting the Number of Clusters in n-Way Probabilistic Clustering. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 2006-2021.	9.7	148
83	Blind Source Separation by Fully Nonnegative Constrained Iterative Volume Maximization. IEEE Signal Processing Letters, 2010, 17, 799-802.	2.1	3
84	On Blind Separability Based on the Temporal Predictability Method. Neural Computation, 2009, 21, 3519-3531.	1.3	3
85	K-hyperline clustering learning for sparse component analysis. Signal Processing, 2009, 89, 1011-1022.	2.1	65
86	Nonorthogonal Approximate Joint Diagonalization With Well-Conditioned Diagonalizers. IEEE Transactions on Neural Networks, 2009, 20, 1810-1819.	4.8	76
87	Improved FOCUSS Method With Conjugate Gradient Iterations. IEEE Transactions on Signal Processing, 2009, 57, 399-404.	3.2	42
88	Blind Extraction Using Fractional Lower-Order Statistics. , 2009, , .		0
89	QoS Differentiated and Fair Packet Scheduling in Broadband Wireless Access Networks. Eurasip Journal on Wireless Communications and Networking, 2009, 2009, .	1.5	3
90	Equivalence Probability and Sparsity of Two Sparse Solutions in Sparse Representation. IEEE Transactions on Neural Networks, 2008, 19, 2009-2021.	4.8	23

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91	Nonnegative Matrix Factorization Applied to Nonlinear Speech and Image Cryptosystems. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 2356-2367.	3.5	21
92	A Note on Lewicki-Sejnowski Gradient for Learning Overcomplete Representations. Neural Computation, 2008, 20, 636-643.	1.3	26
93	Statistically non-sparse decomposition of two underdetermined audio mixtures. , 2008, , .		0
94	Convolutional Blind Source Separation in the Frequency Domain Based on Sparse Representation. IEEE Transactions on Audio Speech and Language Processing, 2007, 15, 1551-1563.	3.8	68
95	Underdetermined blind source separation based on sparse representation. IEEE Transactions on Signal Processing, 2006, 54, 423-437.	3.2	261
96	Sparse representation and blind source separation of ill-posed mixtures. Science in China Series F: Information Sciences, 2006, 49, 639-652.	1.1	30
97	Sparse representation of complex valued signals. , 2006, , .		0
98	A Penalty Function Based Algorithm of Blind Separation. , 2006, , .		0
99	STUDY ON THE GLOBAL PROPERTY OF THE SMOOTH CHUA'S SYSTEM. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 2815-2841.	0.7	31
100	K-Hyperplanes Clustering and Its Application to Sparse Component Analysis. Lecture Notes in Computer Science, 2006, , 1038-1047.	1.0	1
101	FIR Convolutional BSS Based on Sparse Representation. Lecture Notes in Computer Science, 2005, , 532-537.	1.0	3
102	A Note on Stone's Conjecture of Blind Signal Separation. Neural Computation, 2005, 17, 321-330.	1.3	66