James Jq Yu

List of Publications by Year in descending order

90 papers	**4,353** citations	218677 **26** h-index	138484 **58** g-index
90 all docs	**90** docs citations	**90** times ranked	**3612** citing authors

#	Article	IF	Citations
1	Chemical-Reaction-Inspired Metaheuristic for Optimization. IEEE Transactions on Evolutionary Computation, 2010, 14, 381-399.	10.0	493
2	Privacy-Preserving Traffic Flow Prediction: A Federated Learning Approach. IEEE Internet of Things Journal, 2020, 7, 7751-7763.	8.7	323
3	Rate-splitting multiple access for downlink communication systems: bridging, generalizing, and outperforming SDMA and NOMA. Eurasip Journal on Wireless Communications and Networking, 2018, 2018, 133.	2.4	310
4	A social spider algorithm for global optimization. Applied Soft Computing Journal, 2015, 30, 614-627.	7.2	303
5	Intelligent Fault Detection Scheme for Microgrids With Wavelet-Based Deep Neural Networks. IEEE Transactions on Smart Grid, 2019, 10, 1694-1703.	9.0	232
6	Online False Data Injection Attack Detection With Wavelet Transform and Deep Neural Networks. IEEE Transactions on Industrial Informatics, 2018, 14, 3271-3280.	11.3	212
7	Intelligent Time-Adaptive Transient Stability Assessment System. IEEE Transactions on Power Systems, 2018, 33, 1049-1058.	6.5	210
8	Chemical Reaction Optimization: a tutorial. Memetic Computing, 2012, 4, 3-17.	4.0	188
9	Capacity Estimation for Vehicle-to-Grid Frequency Regulation Services With Smart Charging Mechanism. IEEE Transactions on Smart Grid, 2016, 7, 156-166.	9.0	166
10	Online Vehicle Routing With Neural Combinatorial Optimization and Deep Reinforcement Learning. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 3806-3817.	8.0	160
11	Real-Coded Chemical Reaction Optimization. IEEE Transactions on Evolutionary Computation, 2012, 16, 339-353.	10.0	139
12	Optimal Scheduling With Vehicle-to-Grid Regulation Service. IEEE Internet of Things Journal, 2014, 1, 556-569.	8.7	97
13	Spatial-Temporal Graph Attention Networks: A Deep Learning Approach for Traffic Forecasting. IEEE Access, 2019, 7, 166246-166256.	4.2	89
14	On the Convergence of Chemical Reaction Optimization for Combinatorial Optimization. IEEE Transactions on Evolutionary Computation, 2013, 17, 605-620.	10.0	82
15	A social spider algorithm for solving the non-convex economic load dispatch problem. Neurocomputing, 2016, 171, 955-965.	5.9	79
16	Real-Time Traffic Speed Estimation With Graph Convolutional Generative Autoencoder. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 3940-3951.	8.0	71
17	A review on health cost accounting of air pollution in China. Environment International, 2018, 120, 279-294.	10.0	67
18	Autonomous Vehicle Logistic System: Joint Routing and Charging Strategy. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 2175-2187.	8.0	64

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19	Evolutionary artificial neural network based on Chemical Reaction Optimization. , 2011, , .		49
20	Coordinated Autonomous Vehicle Parking for Vehicle-to-Grid Services: Formulation and Distributed Algorithm. IEEE Transactions on Smart Grid, 2018, 9, 4356-4366.	9.0	47
21	Multi-objective design optimization of combined cooling, heating and power system for cruise ship application. Journal of Cleaner Production, 2019, 233, 264-279.	9.3	47
22	Chemical Reaction Optimization for population transition in peer-to-peer live streaming. , 2010, , .		46
23	FASTGNN: A Topological Information Protected Federated Learning Approach for Traffic Speed Forecasting. IEEE Transactions on Industrial Informatics, 2021, 17, 8464-8474.	11.3	44
24	Chemical Reaction Optimization for Cognitive Radio Spectrum Allocation. , 2010, , .		42
25	Delay Aware Intelligent Transient Stability Assessment System. IEEE Access, 2017, 5, 17230-17239.	4.2	39
26	Delay Aware Power System Synchrophasor Recovery and Prediction Framework. IEEE Transactions on Smart Grid, 2019, 10, 3732-3742.	9.0	39
27	Vehicular Energy Network. IEEE Transactions on Transportation Electrification, 2017, 3, 392-404.	7.8	38
28	Two-Stage Request Scheduling for Autonomous Vehicle Logistic System. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 1917-1929.	8.0	31
29	Travel Mode Identification With GPS Trajectories Using Wavelet Transform and Deep Learning. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 1093-1103.	8.0	31
30	Synchrophasor Recovery and Prediction: A Graph-Based Deep Learning Approach. IEEE Internet of Things Journal, 2019, 6, 7348-7359.	8.7	29
31	PPGAN: Privacy-Preserving Generative Adversarial Network. , 2019, , .		26
32	Semi-supervised deep ensemble learning for travel mode identification. Transportation Research Part C: Emerging Technologies, 2020, 112, 120-135.	7.6	26
33	Semi-Supervised Federated Learning for Travel Mode Identification From GPS Trajectories. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 2380-2391.	8.0	25
34	Power-Controlled Cognitive Radio Spectrum Allocation with Chemical Reaction Optimization. IEEE Transactions on Wireless Communications, 2013, 12, 3180-3190.	9.2	22
35	Deep learning for video object segmentation: a review. Artificial Intelligence Review, 2023, 56, 457-531.	15.7	22
36	Resource Allocation in Moving Small Cell Network. IEEE Transactions on Wireless Communications, 2016, , 1-1.	9.2	21

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37	Double Auction-Based Pricing Mechanism for Autonomous Vehicle Public Transportation System. IEEE Transactions on Intelligent Vehicles, 2018, 3, 151-162.	12.7	20
38	Citywide traffic speed prediction: A geometric deep learning approach. Knowledge-Based Systems, 2021, 212, 106592.	7.1	20
39	Long-Term Urban Traffic Speed Prediction With Deep Learning on Graphs. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 7359-7370.	8.0	20
40	Graph Construction for Traffic Prediction: A Data-Driven Approach. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 15015-15027.	8.0	20
41	Electric Vehicle Dynamic Wireless Charging System: Optimal Placement and Vehicle-to-Grid Scheduling. IEEE Internet of Things Journal, 2022, 9, 6047-6057.	8.7	19
42	Joint Rebalancing and Vehicle-to-Grid Coordination for Autonomous Vehicle Public Transportation System. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 7156-7169.	8.0	18
43	FedGRU: Privacy-preserving Traffic Flow Prediction via Federated Learning. , 2020, , .		15
44	Resource-Constrained Federated Edge Learning With Heterogeneous Data: Formulation and Analysis. IEEE Transactions on Network Science and Engineering, 2022, 9, 3166-3178.	6.4	14
45	Collision Avoidance Predictive Motion Planning Based on Integrated Perception and V2V Communication. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 9640-9653.	8.0	14
46	A Novel Interpolation-SVT Approach for Recovering Missing Low-Rank Air Quality Data. IEEE Access, 2020, 8, 74291-74305.	4.2	13
47	Spatial-Temporal Traffic Data Imputation via Graph Attention Convolutional Network. Lecture Notes in Computer Science, 2021, , 241-252.	1.3	13
48	Deep-AIR: A Hybrid CNN-LSTM Framework for Fine-Grained Air Pollution Estimation and Forecast in Metropolitan Cities. IEEE Access, 2022, 10, 55818-55841.	4.2	13
49	Sensor deployment for air pollution monitoring using public transportation system. , 2012, , .		12
50	Delay aware transient stability assessment with synchrophasor recovery and prediction framework. Neurocomputing, 2018, 322, 187-194.	5.9	12
51	Sybil Attack Identification for Crowdsourced Navigation: A Self-Supervised Deep Learning Approach. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 4622-4634.	8.0	12
52	Toward Crowdsourced Transportation Mode Identification: A Semisupervised Federated Learning Approach. IEEE Internet of Things Journal, 2022, 9, 11868-11882.	8.7	12
53	Autonomous Vehicle Intelligent System: Joint Ride-Sharing and Parcel Delivery Strategy. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 18466-18477.	8.0	12
54	Optimal V2G scheduling of electric vehicles and Unit Commitment using Chemical Reaction Optimization. , 2013, , .		11

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55	A unified framework for wide area measurement system planning. International Journal of Electrical Power and Energy Systems, 2018, 96, 43-51.	5.5	11
56	A Communication-Efficient Federated Learning Scheme for IoT-Based Traffic Forecasting. IEEE Internet of Things Journal, 2022, 9, 11918-11931.	8.7	11
57	An electric-vehicle-based supplementary power delivery system. , 2015, , .		10
58	Robust Federated Learning Approach for Travel Mode Identification from Non-IID GPS Trajectories. , 2020, , .		10
59	Missing Air Pollution Data Recovery Based on Long-Short Term Context Encoder. IEEE Transactions on Big Data, 2022, 8, 711-722.	6.1	9
60	Chemical Reaction Optimization for the optimal power flow problem. , 2012, , .		8
61	Base station switching problem for green cellular networks with Social Spider Algorithm. , 2014, , .		8
62	Low-rank singular value thresholding for recovering missing air quality data. , 2017, , .		8
63	Core-Selecting Auctions for Autonomous Vehicle Public Transportation System. IEEE Systems Journal, 2019, 13, 2046-2056.	4.6	8
64	Putative Blood Somatic Mutations in Post-Traumatic Stress Disorder-Symptomatic Soldiers: High Impact of Cytoskeletal and Inflammatory Proteins. Journal of Alzheimer's Disease, 2021, 79, 1723-1734.	2.6	8
65	Real-coded chemical reaction optimization with different perturbation functions. , 2012, , .		7
66	Transfer Learning in Traffic Prediction with Graph Neural Networks. , 2021, , .		7
67	Coordinated autonomous vehicle parking for vehicle-to-grid services. , 2016, , .		6
68	Maximizing aggregator profit through energy trading by coordinated electric vehicle charging. , 2016, , .		6
69	Long-term Origin-Destination Demand Prediction with Graph Deep Learning. IEEE Transactions on Big Data, 2021, , 1-1.	6.1	6
70	Parameter sensitivity analysis of Social Spider Algorithm. , 2015, , .		5
71	Energy loss minimization for vehicular energy network routing. , 2016, , .		5
72	Energy exchange coordination of off-grid charging stations with Vehicular Energy Network. , 2017, , .		5

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73	Complicating the Social Networks for Better Storytelling: An Empirical Study of Chinese Historical Text and Novel. IEEE Transactions on Computational Social Systems, 2021, 8, 754-767.	4.4	5
74	Adaptive chemical reaction optimization for global numerical optimization. , 2015, , .		4
75	Editorial: Designing a Protocol Adopting an Artificial Intelligence (AI)â€"Driven Approach for Early Diagnosis of Late-Onset Alzheimerâ€™s Disease. Journal of Molecular Neuroscience, 2021, 71, 1329-1337.	2.3	4
76	Chemical reaction optimization for the set covering problem. , 2014, , .		3
77	Robust Routing for Vehicular Energy Network. , 2017, , .		3
78	Citywide Estimation of Travel Time Distributions with Bayesian Deep Graph Learning. IEEE Transactions on Knowledge and Data Engineering, 2021, , 1-1.	5.7	3
79	Online Traffic Speed Estimation for Urban Road Networks with Few Data: A Transfer Learning Approach. , 2019, , .		2
80	A Bayesian Learning Network for Traffic Speed Forecasting with Uncertainty Quantification. , 2021, , .		2
81	Reconstruction of Missing Trajectory Data: A Deep Learning Approach. , 2020, , .		2
82	Improving Transportation Mode Identification with Limited GPS Trajectories. , 2021, , .		2
83	Graph-Based Traffic Forecasting via Communication-Efficient Federated Learning. , 2022, , .		2
84	Improved short adjacent repeat identification using three evolutionary Monte Carlo schemes. International Journal of Data Mining and Bioinformatics, 2013, 8, 462.	0.1	1
85	An inter-molecular adaptive collision scheme for Chemical Reaction Optimization. , 2014, , .		1
86	A Revisit of Infinite Population Models for Evolutionary Algorithms on Continuous Optimization Problems. Evolutionary Computation, 2020, 28, 55-85.	3.0	1
87	Origin-Destination Matrix Prediction via Hexagon-based Generated Graph. , 2021, , .		1
88	A new optimal resource allocation scheme for computationally expensive problems. , 2016, , .		0
89	Joint relay and user selection for two-hop multi-relay multi-user MIMO systems. , 2016, , .		0
90	Multiview Volume and Temporal Difference Network for Angle-Closure Glaucoma Screening from AS-OCT Videos. Journal of Healthcare Engineering, 2022, 2022, 1-9.	1.9	0