Zhu Xiao

List of Publications by Year
in descending order

108 papers	2,126 citations	212478 28 h-index	312153 41 g-index
110 all docs	110 docs citations	110 times ranked	1580 citing authors

#	Article	IF	Citations
1	Achieving Reliable Intervehicle Positioning Based on Redheffer Weighted Least Squares Model Under Multi-GNSS Outages. IEEE Transactions on Cybernetics, 2023, 53, 1039-1050.	6.2	3
2	Understanding Private Car Aggregation Effect via Spatio-Temporal Analysis of Trajectory Data. IEEE Transactions on Cybernetics, 2023, 53, 2346-2357.	6.2	49
3	Joint Task Offloading and Resource Allocation for Energy-Constrained Mobile Edge Computing. IEEE Transactions on Mobile Computing, 2023, 22, 4000-4015.	3.9	65
4	Task Offloading for Cloud-Assisted Fog Computing With Dynamic Service Caching in Enterprise Management Systems. IEEE Transactions on Industrial Informatics, 2023, 19, 662-672.	7.2	43
5	An Energy-Efficient Framework for Internet of Things Underlaying Heterogeneous Small Cell Networks. IEEE Transactions on Mobile Computing, 2022, 21, 31-43.	3.9	117
6	Hyperspectral Image Classification Based on Deep Attention Graph Convolutional Network. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	2.7	44
7	Exploring Human Mobility Patterns and Travel Behavior: A Focus on Private Cars. IEEE Intelligent Transportation Systems Magazine, 2022, 14, 129-146.	2.6	8
8	Vehicle Trajectory Interpolation Based on Ensemble Transfer Regression. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 7680-7691.	4.7	11
9	Understanding Urban Area Attractiveness Based on Private Car Trajectory Data Using a Deep Learning Approach. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 12343-12352.	4.7	6
10	Location Privacy-preserving Mechanisms in Location-based Services. ACM Computing Surveys, 2022, 54, 1-36.	16.1	72
11	Trajectory Data Acquisition via Private Car Positioning Based on Tightly-coupled GPS/OBD Integration in Urban Environments. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 9680-9691.	4.7	6
12	Two-Stream Spatial–Temporal Graph Convolutional Networks for Driver Drowsiness Detection. IEEE Transactions on Cybernetics, 2022, 52, 13821-13833.	6.2	19
13	Class Incremental Learning With Few-Shots Based on Linear Programming for Hyperspectral Image Classification. IEEE Transactions on Cybernetics, 2022, 52, 5474-5485.	6.2	24
14	Object Detection in Large-Scale Remote-Sensing Images Based on Time-Frequency Analysis and Feature Optimization. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	2.7	8
15	Computation Bits Maximization in UAV-Enabled Mobile-Edge Computing System. IEEE Internet of Things Journal, 2022, 9, 10640-10651.	5.5	12
16	Exploiting Spatiotemporal Correlations of Arrive-Stay-Leave Behaviors for Private Car Flow Prediction. IEEE Transactions on Network Science and Engineering, 2022, 9, 834-847.	4.1	8
17	Few-Shot Hyperspectral Image Classification Based on Adaptive Subspaces and Feature Transformation. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	2.7	18
18	A Precoding Approach for Dual-Functional Radar-Communication System With One-Bit DACs. IEEE Journal on Selected Areas in Communications, 2022, 40, 1965-1977.	9.7	7

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19	Spatial-Temporal Conv-Sequence Learning With Accident Encoding for Traffic Flow Prediction. IEEE Transactions on Network Science and Engineering, 2022, 9, 1765-1775.	4.1	9
20	Hyperspectral Image Classification Based on Superpixel Feature Subdivision and Adaptive Graph Structure. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	6
21	Toward Predicting Stay Time for Private Car Users: A RNN-NALU Approach. IEEE Transactions on Vehicular Technology, 2022, 71, 6007-6018.	3.9	1
22	Electromagnetic Signal Classification Based on Class Exemplar Selection and Multi-Objective Linear Programming. Remote Sensing, 2022, 14, 1177.	1.8	2
23	Foreseeing private car transfer between urban regions with multiple graph-based generative adversarial networks. World Wide Web, 2022, 25, 2515-2534.	2.7	5
24	Face Recognition Based on Deep Learning and FPGA for Ethnicity Identification. Applied Sciences (Switzerland), 2022, 12, 2605.	1.3	15
25	A Novel Dynamic Channel Assembling Strategy in Cognitive Radio Networks With Fine-Grained Flow Classification. IEEE Internet of Things Journal, 2022, 9, 19599-19614.	5.5	2
26	Location Prediction for Individual Vehicles via Exploiting Travel Regularity and Preference. IEEE Transactions on Vehicular Technology, 2022, 71, 4718-4732.	3.9	7
27	A Load-Balanced and Energy-Efficient Navigation Scheme for UAV-Mounted Mobile Edge Computing. IEEE Transactions on Network Science and Engineering, 2022, 9, 3659-3674.	4.1	15
28	MsmcNet: A Modular Few-Shot Learning Framework for Signal Modulation Classification. IEEE Transactions on Signal Processing, 2022, 70, 3789-3801.	3.2	7
29	Resource management in UAV-assisted MEC: state-of-the-art and open challenges. Wireless Networks, 2022, 28, 3305-3322.	2.0	19
30	An Optimized Training Method for GAN-Based Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 1791-1795.	1.4	20
31	An Empirical Study of Travel Behavior Using Private Car Trajectory Data. IEEE Transactions on Network Science and Engineering, 2021, 8, 53-64.	4.1	12
32	Toward Accurate Intervehicle Positioning Based on GNSS Pseudorange Measurements Under Non-Gaussian Generalized Errors. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	2.4	7
33	Computation Efficiency Maximization and QoE-Provisioning in UAV-Enabled MEC Communication Systems. IEEE Transactions on Network Science and Engineering, 2021, 8, 1630-1645.	4.1	41
34	Social Relationship Inference Over Private Vehicle Mobility Data. IEEE Transactions on Vehicular Technology, 2021, 70, 5221-5233.	3.9	5
35	Garbage In, Garbage Out: Poisoning Attacks Disguised With Plausible Mobility in Data Aggregation. IEEE Transactions on Network Science and Engineering, 2021, 8, 2679-2693.	4.1	6
36	Blockchain-Based Security Mechanism for the Medical Data at Fog Computing Architecture of Internet of Things. Electronics (Switzerland), 2021, 10, 2110.	1.8	42

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37	Understanding the Regular Travel Behavior of Private Vehicles: An Empirical Evaluation and a Semi-Supervised Model. IEEE Sensors Journal, 2021, 21, 19078-19090.	2.4	4
38	A Utility-Aware General Framework With Quantifiable Privacy Preservation for Destination Prediction in LBSs. IEEE/ACM Transactions on Networking, 2021, 29, 2228-2241.	2.6	68
39	A Hyperspectral Image Classification Approach Based on Feature Fusion and Multi-Layered Gradient Boosting Decision Trees. Entropy, 2021, 23, 20.	1.1	19
40	A Fusion Framework Based on Sparse Gaussian–Wigner Prediction for Vehicle Localization Using GDOP of GPS Satellites. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 680-689.	4.7	33
41	Vehicular Task Offloading via Heat-Aware MEC Cooperation Using Game-Theoretic Method. IEEE Internet of Things Journal, 2020, 7, 2038-2052.	5.5	120
42	Exploring Individual Travel Patterns Across Private Car Trajectory Data. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 5036-5050.	4.7	51
43	A Joint Information and Energy Cooperation Framework for CR-Enabled Macro–Femto Heterogeneous Networks. IEEE Internet of Things Journal, 2020, 7, 2828-2839.	5.5	32
44	Airplane Detection in Optical Remote Sensing Video Using Spatial and Temporal Features. , 2020, , .		0
45	Identifying Ethnics of People through Face Recognition: A Deep CNN Approach. Scientific Programming, 2020, 2020, 1-7.	0.5	13
46	Efficient design of wideband digital fractional order differentiators and integrators using multi-verse optimizer. Applied Soft Computing Journal, 2020, 93, 106340.	4.1	13
47	TrajData: On Vehicle Trajectory Collection With Commodity Plug-and-Play OBU Devices. IEEE Internet of Things Journal, 2020, 7, 9066-9079.	5.5	32
48	Drive2friends: Inferring Social Relationships From Individual Vehicle Mobility Data. IEEE Internet of Things Journal, 2020, 7, 5116-5127.	5.5	39
49	Resource Allocation and Trajectory Optimization for QoE Provisioning in Energy-Efficient UAV-Enabled Wireless Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 7634-7647.	3.9	84
50	On Extracting Regular Travel Behavior of Private Cars Based on Trajectory Data Analysis. IEEE Transactions on Vehicular Technology, 2020, 69, 14537-14549.	3.9	23
51	Stop-and-Wait: Discover Aggregation Effect Based on Private Car Trajectory Data. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 3623-3633.	4.7	45
52	Toward Opportunistic Compression and Transmission for Private Car Trajectory Data Collection. IEEE Sensors Journal, 2019, 19, 1925-1935.	2.4	9
53	Energy-Aware Clustering and Routing in Infrastructure Failure Areas With D2D Communication. IEEE Internet of Things Journal, 2019, 6, 8645-8657.	5.5	30
54	WiFiMap+: High-Level Indoor Semantic Inference With WiFi Human Activity and Environment. IEEE Transactions on Vehicular Technology, 2019, 68, 7890-7903.	3.9	23

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55	Driving Big Data: A First Look at Driving Behavior via a Large-Scale Private Car Dataset. , 2019, , .		13
56	Optimal design of IIR wideband digital differentiators and integrators using salp swarm algorithm. Knowledge-Based Systems, 2019, 182, 104834.	4.0	40
57	Toward Accurate Vehicle State Estimation Under Non-Gaussian Noises. IEEE Internet of Things Journal, 2019, 6, 10652-10664.	5.5	47
58	Stay of Interest: A Dynamic Spatiotemporal Stay Behavior Perception Method for Private Car Users. , 2019, , .		3
59	Stay Time Prediction for Individual Stay Behavior. IEEE Access, 2019, 7, 130085-130100.	2.6	10
60	Road Network Construction with Complex Intersections Based on Sparsely Sampled Private Car Trajectory Data. ACM Transactions on Knowledge Discovery From Data, 2019, 13, 1-28.	2.5	36
61	Bayesian optimization of support vector machine for regression prediction of short-term traffic flow. Intelligent Data Analysis, 2019, 23, 481-497.	0.4	26
62	Energy-Efficient UAV-Assisted Communication with Spectrum optimization. , 2019, , .		2
63	Throughput Maximization for Two-Way Buffer-Aided and Energy-Harvesting Enabled Multi-Relay Networks. IEEE Access, 2019, 7, 157972-157986.	2.6	7
64	Synthesizing Privacy Preserving Traces: Enhancing Plausibility With Social Networks. IEEE/ACM Transactions on Networking, 2019, 27, 2391-2404.	2.6	26
65	Short-term traffic volume prediction by ensemble learning in concept drifting environments. Knowledge-Based Systems, 2019, 164, 213-225.	4.0	48
66	Nonparametric kernel smoother on topology learning neural networks for incremental and ensemble regression. Neural Computing and Applications, 2019, 31, 2621-2633.	3.2	6
67	GOI: A Novel Design for Vehicle Positioning and Trajectory Prediction Under Urban Environments. IEEE Sensors Journal, 2018, 18, 5586-5594.	2.4	51
68	A novel hybrid approach based-SRG model for vehicle position prediction in multi-GPS outage conditions. Information Fusion, 2018, 41, 1-8.	11.7	38
69	Learning Outcomes-Oriented Feedback-Response Pedagogy in Computer System Course. , 2018, , .		4
70	An improved channel estimation method based on the correlation of preambles in FBMC/OQAM systems. AEU - International Journal of Electronics and Communications, 2018, 94, 150-156.	1.7	1
71	OCT: A Novel Opportunistic Compression and Transmission Approach for Private Car Trajectory Data. , 2018, , .		0
72	A Price-Based Optimization Strategy of Power Control and Resource Allocation in Full-Duplex Heterogeneous Macrocell-Femtocell Networks. IEEE Access, 2018, 6, 42004-42013.	2.6	32

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73	Spectrum Resource Sharing in Heterogeneous Vehicular Networks: A Noncooperative Game-Theoretic Approach With Correlated Equilibrium. IEEE Transactions on Vehicular Technology, 2018, 67, 9449-9458.	3.9	68
74	Modeling and Analysis of Data Aggregation From Convergecast in Mobile Sensor Networks for Industrial IoT. IEEE Transactions on Industrial Informatics, 2018, 14, 4457-4467.	7.2	35
75	Gaussian kernel smooth regression with topology learning neural networks and Python implementation. Neurocomputing, 2017, 260, 1-4.	3.5	9
76	A Load-Balancing Energy Consumption Minimization Scheme in 5G Heterogeneous Small Cell Wireless Networks Under Coverage Probability Analysis. International Journal of Pattern Recognition and Artificial Intelligence, 2017, 31, 1759013.	0.7	6
77	Understanding Travel Behavior of Private Cars via Trajectory Big Data Analysis in Urban Environments. , 2017, , .		13
78	Fatigue detection of vehicular driver through skin conductance, pulse oximetry and respiration: A random forest classifier. , 2017, , .		9
79	TIVMM: An effective map algorithm for low-sampling-rate GPS trajectories in road networks. , 2017, , .		1
80	A Gaussian process regression method for urban road travel time prediction. , 2017, , .		2
81	On Enhancing Energy Efficiency via Elastic Cell-Zooming Algorithm in Three-Tier Heterogeneous Wireless Networks. Lecture Notes in Computer Science, 2017, , 136-150.	1.0	2
82	A Hybrid Approach-based Sparse Gaussian Kernel Model for Vehicle State Estimation during the Free and Complete GPS Outages. ETRI Journal, 2016, 38, 579.	1.2	8
83	A Nonlinear Framework of Delayed Particle Smoothing Method for Vehicle Localization under Non-Gaussian Environment. Sensors, 2016, 16, 692.	2.1	20
84	Analytical Study on Multi-Tier 5G Heterogeneous Small Cell Networks: Coverage Performance and Energy Efficiency. Sensors, 2016, 16, 1854.	2.1	28
85	Energy-efficient recognition of human activity in body sensor networks via compressed classification. International Journal of Distributed Sensor Networks, 2016, 12, 155014771667966.	1.3	6
86	Incremental semi-supervised kernel construction with self-organizing incremental neural network and application in intrusion detection. Journal of Intelligent and Fuzzy Systems, 2016, 31, 815-823.	0.8	9
87	Apollonius Circles Based Outbound Handover in Macro-Small Wireless Cellular Networks. , 2016, , .		3
88	A GPR-PSO incremental regression framework on GPS/INS integration for vehicle localization under urban environment. , 2016, , .		6
89	A Gaussian mixture framework for incremental nonparametric regression with topology learning neural networks. Neurocomputing, 2016, 194, 34-44.	3.5	15
90	Optimization of small cell deployment in heterogeneous wireless networks. , 2016, , .		3

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91	A temporal self-organizing neural network for adaptive sub-sequence clustering and case studies. , 2016, , .		0
92	Hybrid Cooperative Vehicle Positioning Using Distributed Randomized Sigma Point Belief Propagation on Non-Gaussian Noise Distribution. IEEE Sensors Journal, 2016, 16, 7803-7813.	2.4	29
93	Short-Term Traffic Flow Prediction Based on Ensemble Real-Time Sequential Extreme Learning Machine Under Non-Stationary Condition. , 2016, , .		14
94	Dynamic PCI allocation on avoiding handover confusion via cell status prediction in LTE heterogeneous small cell networks. Wireless Communications and Mobile Computing, 2016, 16, 1972-1986.	0.8	12
95	GNSS/Low-Cost MEMS-INS Integration Using Variational Bayesian Adaptive Cubature Kalman Smoother and Ensemble Regularized ELM. Mathematical Problems in Engineering, 2015, 2015, 1-13.	0.6	7
96	A Novel Probabilistic Approach for Vehicle Position Prediction in Free, Partial, and Full GPS Outages. Mathematical Problems in Engineering, 2015, 2015, 1-13.	0.6	8
97	Hysteresis automatic configuration for outbound handover in heterogeneous small cell networks. , 2015, , .		2
98	A three-dimensional localization method in severe non-line-of-sight environment with lacking arrival angle. , 2015, , .		0
99	A framework for metric learning and embedding with topology learning neural networks. , 2015, , .		0
100	Load-awareness energy saving strategy via success probability constraint for heterogeneous small cell networks. , 2015, , .		1
101	An analysis of anonymity on capacity finite social spots based pseudonym changing for location privacy in VANETs. , 2015, , .		4
102	An efficient interference mitigation approach via quasiâ€access in twoâ€tier macroâ€femto heterogeneous networks. International Journal of Communication Systems, 2015, 28, 901-909.	1.6	6
103	Hybrid global navigation satellite systems, differential navigation satellite systems and time of arrival cooperative positioning based on iterative finite difference particle filter. IET Communications, 2015, 9, 1699-1709.	1.5	8
104	A Two-Task Hierarchical Constrained Tri-Objective Optimization Approach for Vehicle State Estimation Under Non-Gaussian Environment. Journal of Computational and Theoretical Nanoscience, 2015, 12, 5504-5516.	0.4	4
105	Dynamic user equipmentâ€based hysteresisâ€adjusting algorithm in LTE femtocell networks. IET Communications, 2014, 8, 3050-3060.	1.5	8
106	Interference management via access control and mobility prediction in two-tier heterogeneous networks. Journal of Central South University, 2014, 21, 3169-3177.	1.2	2
107	Study on Current Research and Future Trends of Two-Tier Femto-Macro Networks. , 2012, , .		0
108	Research on positioning enhancement scheme of CAPS via UWB pseudolite. Science China: Physics, Mechanics and Astronomy, 2012, 55, 733-737.	2.0	8