Weisi Guo

List of Publications by Year
in descending order

191
papers

3,961
citations

236833
25
h-index

197736
49
g-index

192
all docs

192
docs citations

192
times ranked

2851
citing authors

#	Article	IF	Citations
1	Robust Fuzzy Learning for Partially Overlapping Channels Allocation in UAV Communication Networks. IEEE Transactions on Mobile Computing, 2022, 21, 1388-1401.	3.9	5
2	Neural Network Approximation of Graph Fourier Transform for Sparse Sampling of Networked Dynamics. ACM Transactions on Internet Technology, 2022, 22, 1-18.	3.0	0
3	An Integrated Framework on Autonomous-EV Charging and Autonomous Valet Parking (AVP) Management System. IEEE Transactions on Transportation Electrification, 2022, 8, 2836-2852.	5.3	14
4	Error Performance and Mutual Information for IoNT Interface System. IEEE Internet of Things Journal, 2022, 9, 9831-9842.	5.5	8
5	A Multi-Eavesdropper Scheme Against RIS Secured LoS-Dominated Channel. IEEE Communications Letters, 2022, 26, 1221-1225.	2.5	6
6	Graph Layer Security: Encrypting Information via Common Networked Physics. Sensors, 2022, 22, 3951.	2.1	3
7	Analysing region of attraction of load balancing on complex network. Journal of Complex Networks, 2022, 10, .	1.1	1
8	Green Deep Reinforcement Learning for Radio Resource Management: Architecture, Algorithm Compression, and Challenges. IEEE Vehicular Technology Magazine, 2021, 16, 29-39.	2.8	19
9	Kolmogorov Turbulence and Information Dissipation in Molecular Communication. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2021, 7, 262-270.	1.4	3
10	Dynamic Complex Network Analysis of PM2.5 Concentrations in the UK, Using Hierarchical Directed Graphs (V1.0.0). Sustainability, 2021, 13, 2201.	1.6	9
11	Forecasting Wireless Demand with Extreme Values using Feature Embedding in Gaussian Processes. , 2021, , .		4
12	Editorial: Biologically Inspired Computing and Networking. Mobile Networks and Applications, 2021, 26, 1344-1346.	2.2	1
13	Signal Detection for Molecular Communication: Model-Based vs. Data-Driven Methods. IEEE Communications Magazine, 2021, 59, 47-53.	4.9	12
14	A Frequency Domain View on Diffusion-based Molecular Communication Channels. , 2021, , .		0
15	Graph hierarchy: a novel framework to analyse hierarchical structures in complex networks. Scientific Reports, 2021, 11, 13943.	1.6	9
16	Uncertainty of Resilience in Complex Networks With Nonlinear Dynamics. IEEE Systems Journal, 2021, 15, 4687-4695.	2.9	3
17	Frequency Domain Analysis and Equalization for Molecular Communication. IEEE Transactions on Signal Processing, 2021, 69, 1952-1967.	3.2	18
18	Infection and Re-Infection: Stability of Complex Air Transport Network. , 2021, , .		0

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19	Automatic Quantification of Settlement Damage using Deep Learning of Satellite Images. , 2021, , .		1
20	Kalman Prediction-Based Neighbor Discovery and Its Effect on Routing Protocol in Vehicular Ad Hoc Networks. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 159-169.	4.7	32
21	Optimal Sampling of Water Distribution Network Dynamics Using Graph Fourier Transform. IEEE Transactions on Network Science and Engineering, 2020, 7, 1570-1582.	4.1	14
22	Probabilistic Stability of Traffic Load Balancing on Wireless Complex Networks. IEEE Systems Journal, 2020, 14, 2551-2556.	2.9	4
23	CSI-Independent Non-Linear Signal Detection in Molecular Communications. IEEE Transactions on Signal Processing, 2020, 68, 97-112.	3.2	14
24	Hammingâ€"Luby rateless codes for molecular erasure channels. Nano Communication Networks, 2020, 23, 100280.	1.6	2
25	High-Dimensional Metric Combining for Non-Coherent Molecular Signal Detection. IEEE Transactions on Communications, 2020, 68, 1479-1493.	4.9	19
26	Partially Explainable Big Data Driven Deep Reinforcement Learning for Green 5G UAV. , 2020, , .		16
27	Molecular Signal Tracking and Detection Methods in Fluid Dynamic Channels. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2020, 6, 151-159.	1.4	5
28	Sampling and Inference of Networked Dynamics Using Log-Koopman Nonlinear Graph Fourier Transform. IEEE Transactions on Signal Processing, 2020, 68, 6187-6197.	3.2	4
29	Trustworthy Deep Learning in 6G-Enabled Mass Autonomy: From Concept to Quality-of-Trust Key Performance Indicators. IEEE Vehicular Technology Magazine, 2020, 15, 112-121.	2.8	30
30	Discovering Latent Spatial Invariance of Urban Wireless Data using Compression and Deep Learning. , 2020, , .		0
31	Vertical Underwater Molecular Communications via Buoyancy: Gaussian Velocity Distribution of Signal. , 2020, , .		4
32	Secure Internet-of-Nano Things for Targeted Drug Delivery: Distance-based Molecular Cipher Keys. , 2020, , .		11
33	Attention-Based LSTM with Filter Mechanism for Entity Relation Classification. Symmetry, 2020, 12, 1729.	1.1	13
34	Ant-Behavior Inspired Intelligent NanoNet for Targeted Drug Delivery in Cancer Therapy. IEEE Transactions on Nanobioscience, 2020, 19, 323-332.	2.2	20
35	Molecular Communication via Subdiffusion With a Spherical Absorbing Receiver. IEEE Wireless Communications Letters, 2020, 9, 1682-1686.	3.2	8
36	Organisational Social Influence on Directed Hierarchical Graphs, from Tyranny to Anarchy. Scientific Reports, 2020, 10, 4388.	1.6	9

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37	Monitoring Embedded Flow Networks Using Graph Fourier Transform Enabled Sparse Molecular Relays. IEEE Communications Letters, 2020, 24, 986-990.	2.5	2
38	Signal Detection for Molecular MIMO Communications With Asymmetrical Topology. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2020, 6, 60-70.	1.4	7
39	Inference in Turbulent Molecular Information Channels Using Support Vector Machine. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2020, 6, 25-35.	1.4	5
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42	Radiation Absorption Noise for Molecular Information Transfer. IEEE Access, 2020, 8, 6379-6387.	2.6	11
43	Quantifying Resilience via Multiscale Feedback Loops in Water Distribution Networks. Journal of Water Resources Planning and Management - ASCE, 2020, 146, .	1.3	15
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45	A Review of Methods to Study Resilience of Complex Engineering and Engineered Systems. IEEE Access, 2020, 8, 87775-87799.	2.6	18
46	Signal Transmission Through Human Body Via Engineered Nervous System. , 2020, , .		4
47	Heterogeneous Small Cell Networks. , 2020, , 561-571.		0
48	LSTM-CRF Neural Network With Gated Self Attention for Chinese NER. IEEE Access, 2019, 7, 136694-136703.	2.6	37
49	Optimal Sampling for Dynamic Complex Networks With Graph-Bandlimited Initialization. IEEE Access, 2019, 7, 150294-150305.	2.6	6
50	Linearity of Sequential Molecular Signals in Turbulent Diffusion Channels. , 2019, , .		7
51	Mapping Consumer Sentiment Toward Wireless Services Using Geospatial Twitter Data. IEEE Access, 2019, 7, 113726-113739.	2.6	19
52	Initial Distance Estimation for Diffusive Mobile Molecular Communication Systems. , 2019, , .		3
53	HS2 railway embankment monitoring: effect of soil condition on underground signals. SN Applied Sciences, 2019, 1, 1.	1.5	4
54	Text Classification Based on Conditional Reflection. IEEE Access, 2019, 7, 76712-76719.	2.6	5

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61	Geo-Tagging Quality-of-Experience Self-Reporting on Twitter to Mobile Network Outage Events. , 2019, , .		5
62	Monitoring Networked Infrastructure with Minimum Data via Sequential Graph Fourier Transforms. , 2019, , .		3
63	A Tale of Two Cities: Multiplexed Banking Access in Birmingham and London. , 2019, , .		0
64	Mutual Information and Noise Distributions of Molecular Signals Using Laser Induced Fluorescence. , 2019, , .		17
65	On the Stability of the Foschini-Miljanic Algorithm with Uncertainty over Channel Gains. , 2019, , .		2
66	Swarm UAV Communications with Diversity and Delay Trade-off using Mobile Caching. , 2019, , .		1
67	Sequential Bayesian Detection of Spike Activities From Fluorescence Observations. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2019, 5, 3-18.	1.4	3
68	Analytical Evaluation of Cellular Network Uplink Communications With Higher Order Sectorization Deployments. IEEE Transactions on Vehicular Technology, 2019, 68, 12179-12189.	3.9	7
69	Deep learning for bridge load capacity estimation in post-disaster and -conflict zones. Royal Society Open Science, 2019, 6, 190227.	1.1	8
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74	Conflict Detection in Linguistically Diverse On-line Social Networks. , 2019, , .		2
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81	Asynchronous Device Detection for Cognitive Device-to-Device Communications. IEEE Transactions on Wireless Communications, 2018, 17, 2443-2456.	6.1	9
82	Data-Driven Deployment and Cooperative Self-Organization in Ultra-Dense Small Cell Networks. IEEE Access, 2018, 6, 22839-22848.	2.6	24
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110	Local Convexity Inspired Low-Complexity Noncoherent Signal Detector for Nanoscale Molecular Communications. IEEE Transactions on Communications, 2016, 64, 2079-2091.	4.9	50
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112	London underground: Neighbourhood centrality and relation to urban geography. , 2016, , .		3
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182	Exact and Asymptotic Outage Probability Analysis for Decode-and-Forward Networks. IEEE Transactions on Communications, 2011, 59, 376-381.	4.9	14
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