Guanding Yu

List of Publications by Year
in descending order

143 papers	4,447 citations	159585 30 h-index	114465 63 g-index
143 all docs	143 docs citations	143 times ranked	3900 citing authors

#	Article	IF	Citations
1	Dynamic Rolling Horizon Scheduling of Waterborne AGVs for Inter Terminal Transportation: Mathematical Modeling and Heuristic Solution. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 3853-3865.	8.0	3
2	Toward the Energy-Saving Optimization of WLAN Deployment in Real 3-D Environment: A Hybrid Swarm Intelligent Method. IEEE Systems Journal, 2022, 16, 2425-2436.	4.6	14
3	Joint Model Pruning and Device Selection for Communication-Efficient Federated Edge Learning. IEEE Transactions on Communications, 2022, 70, 231-244.	7.8	22
4	Deep-Unfolding Beamforming for Intelligent Reflecting Surface Assisted Full-Duplex Systems. IEEE Transactions on Wireless Communications, 2022, 21, 4784-4800.	9.2	13
5	Two-Timescale End-to-End Learning for Channel Acquisition and Hybrid Precoding. IEEE Journal on Selected Areas in Communications, 2022, 40, 163-181.	14.0	13
6	A Graph Neural Network Based Decentralized Learning Scheme. Sensors, 2022, 22, 1030.	3.8	2
7	Multicell Power Control Under QoS Requirements With CNet. IEEE Communications Letters, 2022, 26, 1308-1312.	4.1	3
8	RIS-Assisted Communication Radar Coexistence: Joint Beamforming Design and Analysis. IEEE Journal on Selected Areas in Communications, 2022, 40, 2131-2145.	14.0	45
9	Two-Timescale Resource Management for Ultrareliable and Low-Latency Vehicular Communications. IEEE Transactions on Communications, 2022, 70, 3282-3294.	7.8	4
10	Deep-Learning-Based Resource Allocation for Time-Sensitive Device-to-Device Networks. Sensors, 2022, 22, 1551.	3.8	2
11	Mixed-Timescale Deep-Unfolding for Joint Channel Estimation and Hybrid Beamforming. IEEE Journal on Selected Areas in Communications, 2022, 40, 2510-2528.	14.0	6
12	Ship route and speed multi-objective optimization considering weather conditions and emission control area regulations. Maritime Policy and Management, 2021, 48, 1053-1068.	3.8	32
13	Accelerating Generalized Benders Decomposition for Wireless Resource Allocation. IEEE Transactions on Wireless Communications, 2021, 20, 1233-1247.	9.2	13
14	Iterative Algorithm Induced Deep-Unfolding Neural Networks: Precoding Design for Multiuser MIMO Systems. IEEE Transactions on Wireless Communications, 2021, 20, 1394-1410.	9.2	91
15	User Association for Millimeter-Wave Ultra-Reliable Low-Latency Communications. IEEE Wireless Communications Letters, 2021, 10, 315-319.	5.0	2
16	Accelerating DNN Training in Wireless Federated Edge Learning Systems. IEEE Journal on Selected Areas in Communications, 2021, 39, 219-232.	14.0	105
17	Learning-Based WiFi Traffic Load Estimation in NR-U Systems. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2021, E104.A, 542-549.	0.3	6
18	Graph Embedding-Based Wireless Link Scheduling With Few Training Samples. IEEE Transactions on Wireless Communications, 2021, 20, 2282-2294.	9.2	54

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19	Packet-Level Slot Scheduling MAC Protocol in Underwater Acoustic Sensor Networks. IEEE Internet of Things Journal, 2021, 8, 8990-9004.	8.7	8
20	Adaptive Network Pruning for Wireless Federated Learning. IEEE Wireless Communications Letters, 2021, 10, 1572-1576.	5.0	17
21	Joint Deep Reinforcement Learning and Unfolding: Beam Selection and Precoding for mmWave Multiuser MIMO With Lens Arrays. IEEE Journal on Selected Areas in Communications, 2021, 39, 2289-2304.	14.0	31
22	Coexistence algorithms for LTE and WiFi networks in unlicensed spectrum: performance optimization and comparison. Wireless Networks, 2021, 27, 1875-1885.	3.0	7
23	Adaptive Modulation for Wireless Federated Learning. , 2021, , .		2
24	Service Oriented Resource Management in Spatial Reuse-Based C-V2X Networks. IEEE Wireless Communications Letters, 2020, 9, 91-94.	5.0	14
25	Resource Management in LTE-U Systems: Past, Present, and Future. IEEE Open Journal of Vehicular Technology, 2020, 1, 1-17.	4.9	14
26	Robust Rate-Maximization Precoder Design for VFDM System. IEEE Transactions on Vehicular Technology, 2020, 69, 2747-2757.	6.3	3
27	Deep-Learning-Based Wireless Resource Allocation With Application to Vehicular Networks. Proceedings of the IEEE, 2020, 108, 341-356.	21.3	164
28	Learning to Branch: Accelerating Resource Allocation in Wireless Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 958-970.	6.3	39
29	Auxiliary Detection Head for One-Stage Object Detection. IEEE Access, 2020, 8, 85740-85749.	4.2	7
30	Unitary Matrix Method for PAPR Reduction of IDFT-VFDM Signals. IEEE Wireless Communications Letters, 2020, 9, 2107-2111.	5.0	1
31	Wireless Link Scheduling for D2D Communications with Graph Embedding Technique. , 2020, , .		3
32	Importance-Aware Data Selection and Resource Allocation in Federated Edge Learning System. IEEE Transactions on Vehicular Technology, 2020, 69, 13593-13605.	6.3	35
33	Scheduling for Cellular Federated Edge Learning With Importance and Channel Awareness. IEEE Transactions on Wireless Communications, 2020, 19, 7690-7703.	9.2	128
34	BiLSTM Based Reinforcement Learning for Resource Allocation and User Association in LTE-U Networks. Wireless Personal Communications, 2020, 114, 2629-2641.	2.7	0
35	AUV-Aided Energy-Efficient Data Collection in Underwater Acoustic Sensor Networks. IEEE Internet of Things Journal, 2020, 7, 10010-10022.	8.7	105
36	Optimizing the Learning Performance in Mobile Augmented Reality Systems With CNN. IEEE Transactions on Wireless Communications, 2020, 19, 5333-5344.	9.2	14

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37	Group-Based Data Transmission Protocol for Small-Sized URLLC Services. IEEE Wireless Communications Letters, 2020, 9, 1432-1436.	5.0	6
38	LSTM-Based Active User Number Estimation and Prediction for Cellular Systems. IEEE Wireless Communications Letters, 2020, 9, 1258-1262.	5.0	8
39	Semi-Distributed Joint Power and Spectrum Allocation for LAA Based Small Cell Networks. IEEE Transactions on Wireless Communications, 2020, 19, 4141-4153.	9.2	9
40	User Association for Millimeter-Wave Networks: A Machine Learning Approach. IEEE Transactions on Communications, 2020, 68, 4162-4174.	7.8	30
41	Low-Complexity Joint Resource Allocation and Trajectory Design for UAV-Aided Relay Networks With the Segmented Ray-Tracing Channel Model. IEEE Transactions on Wireless Communications, 2020, 19, 6179-6195.	9.2	30
42	Minority Game for Distributed User Association in Unlicensed Heterogenous Networks. IEEE Transactions on Wireless Communications, 2020, 19, 4220-4233.	9.2	11
43	Resource Management for Millimeter-Wave Ultra-Reliable and Low-Latency Communications. IEEE Transactions on Communications, 2020, , 1-1.	7.8	18
44	Importance- and Channel-Aware Scheduling in Cellular Federated Edge Learning. , 2020, , .		1
45	User Association for Ultra-Dense mmWave Networks With Multi-Connectivity: A Multi-Label Classification Approach. IEEE Wireless Communications Letters, 2019, 8, 1579-1582.	5.0	18
46	A Distributed Network Selection Method Based on Minority Game for LTE in Unlicensed Bands. , 2019, , .		4
47	Joint User Association and Resource Allocation for Multi-Band Millimeter-Wave Heterogeneous Networks. IEEE Transactions on Communications, 2019, 67, 8502-8516.	7.8	30
48	Joint Computation Offloading and Resource Allocation in D2D Enabled MEC Networks. , 2019, , .		25
49	Hybrid Adaptive Channel Access for LTE-U Systems. IEEE Transactions on Vehicular Technology, 2019, 68, 9820-9832.	6.3	19
50	Adaptive p-Persistent LBT for Unlicensed LTE: Performance Analysis and Optimization. IEEE Transactions on Vehicular Technology, 2019, 68, 8744-8758.	6.3	9
51	Data Transmission in Mobile Edge Networks: Whether and Where to Compress?. IEEE Communications Letters, 2019, 23, 490-493.	4.1	15
52	Theoretical Framework toward Green Networks. , 2019, , 16-60.		0
53	Collaborative Cloud and Edge Computing for Latency Minimization. IEEE Transactions on Vehicular Technology, 2019, 68, 5031-5044.	6.3	419
54	D2D Communications Meet Mobile Edge Computing for Enhanced Computation Capacity in Cellular Networks. IEEE Transactions on Wireless Communications, 2019, 18, 1750-1763.	9.2	166

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55	Joint Resource Allocation and Trajectory Optimization for UAV-Aided Relay Networks. , 2019, , .		5
56	Novel Channel Access Mechanism for LTE and WiFi Coexistence. , 2019, , .		1
57	Joint Communication and Computation Resource Allocation for Cloud-Edge Collaborative System. , 2019, , .		15
58	Accelerating Resource Allocation for D2D Communications Using Imitation Learning. , 2019, , .		5
59	Enhanced LAA for Unlicensed LTE Deployment Based on TXOP Contention. IEEE Transactions on Communications, 2019, 67, 417-429.	7.8	25
60	Joint Offloading and Trajectory Design for UAV-Enabled Mobile Edge Computing Systems. IEEE Internet of Things Journal, 2019, 6, 1879-1892.	8.7	308
61	An Edge-Computing Based Architecture for Mobile Augmented Reality. IEEE Network, 2019, 33, 162-169.	6.9	112
62	Vehicle Classification Based on Seismic Signatures Using Convolutional Neural Network. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 628-632.	3.1	29
63	Throughput Analysis of LAA and Wi-Fi Coexistence Network With Asynchronous Channel Access. IEEE Access, 2018, 6, 9218-9226.	4.2	15
64	Bidirectional Mobile Offloading in LTE-U and WiFi Coexistence Systems. , 2018, , .		2
65	Multi-Agent Reinforcement Learning Based Unlicensed Resource Sharing for LTE-U Networks. , 2018, , .		0
66	Joint Optimization of Computation Offloading and UL/DL Resource Allocation in MEC Systems. , 2018, , .		6
67	Joint User Association and Resource Optimization for Unlicensed LTE Systems. , 2018, , .		7
68	FdICIC: Inter-cell Interference Coordination for Full-Duplex Cellular Systems. Wireless Personal Communications, 2018, 101, 1-22.	2.7	21
69	Deep Neural Networks for Linear Sum Assignment Problems. IEEE Wireless Communications Letters, 2018, 7, 962-965.	5.0	57
70	Design and Analysis of Random Access for Standalone LTE-U Systems. IEEE Transactions on Vehicular Technology, 2018, 67, 9347-9361.	6.3	10
71	Latency Optimization for Resource Allocation in Mobile-Edge Computation Offloading. IEEE Transactions on Wireless Communications, 2018, 17, 5506-5519.	9.2	339
72	A Hierarchical SDN Architecture for Ultra-Dense Millimeter-Wave Cellular Networks. , 2018, 56, 79-85.		37

#	Article	IF	Citations
73	Results on Energy- and Spectral-Efficiency Tradeoff in Cellular Networks With Full-Duplex Enabled Base Stations. IEEE Transactions on Wireless Communications, 2017, 16, 1494-1507.	9.2	31
74	Embedding LTE-U within Wi-Fi Bands for Spectrum Efficiency Improvement. IEEE Network, 2017, 31, 72-79.	6.9	42
75	Cost-Efficient Cellular Networks Powered by Micro-Grids. IEEE Transactions on Wireless Communications, 2017, 16, 6047-6061.	9.2	7
76	A Framework for Co-Channel Interference and Collision Probability Tradeoff in LTE Licensed-Assisted Access Networks. IEEE Transactions on Wireless Communications, 2016, 15, 6078-6090.	9.2	51
77	LBT-Based Adaptive Channel Access for LTE-U Systems. IEEE Transactions on Wireless Communications, 2016, 15, 6585-6597.	9.2	117
78	Joint user pairing, resource block allocation, and power control for full-duplex cellular networks. , 2016, , .		1
79	Energy Efficiency Optimization for Non-Orthogonal Spectrum Sharing. , 2016, , .		0
80	Joint user scheduling and channel allocation for cellular networks with full duplex base stations. IET Communications, 2016, 10, 479-486.	2.2	27
81	Energy Efficiency Tradeoff in Interference Channels. IEEE Access, 2016, 4, 4495-4508.	4.2	9
82	Optimizing Unlicensed Spectrum Sharing for LTE-U and WiFi Network Coexistence. IEEE Journal on Selected Areas in Communications, 2016, 34, 2562-2574.	14.0	67
83	Genetic Algorithm for Balancing WiFi and LTE Coexistence in the Unlicensed Spectrum. , 2016, , .		5
84	Full–duplex and half–duplex: power efficiency comparison. Electronics Letters, 2016, 52, 483-485.	1.0	8
85	Cellular Meets WiFi: Traffic Offloading or Resource Sharing?. IEEE Transactions on Wireless Communications, 2016, 15, 3354-3367.	9.2	119
86	Time-division cellular networks with full-duplex base stations. IEEE Communications Letters, 2016, 20, 392-395.	4.1	30
87	Energy-Efficient User Association and Resource Allocation for Multistream Carrier Aggregation. IEEE Transactions on Vehicular Technology, 2016, 65, 6366-6376.	6.3	46
88	Adaptive biasing scheme for load balancing in backhaul constrained small cell networks. IET Communications, 2015, 9, 999-1005.	2.2	10
89	Multi-Objective Energy-Efficient Resource Allocation for Multi-RAT Heterogeneous Networks. IEEE Journal on Selected Areas in Communications, 2015, 33, 2118-2127.	14.0	129
90	Multi-objective bandwidth and power allocation for energy-efficient uplink communications. , 2015, , .		1

#	ARTICLE	IF	CITATIONS
91	Li-Fi: Light fidelity-a survey. Wireless Networks, 2015, 21, 1879-1889.	3.0	60
92	Energy-Efficient Resource Allocation in Single-Cell OFDMA Systems: Multi-Objective Approach. IEEE Transactions on Wireless Communications, 2015, 14, 5848-5858.	9.2	41
93	Mode switching for device-to-device communications in cellular networks. , 2014, , .		7
94	Energyâ€efficiency region for multiple access channels. Electronics Letters, 2014, 50, 959-961.	1.0	7
95	Dynamic resource allocation for Deviceâ€toâ€Device communication underlaying cellular networks. International Journal of Communication Systems, 2014, 27, 2408-2425.	2.5	33
96	Joint Mode Selection and Resource Allocation for Device-to-Device Communications. IEEE Transactions on Communications, 2014, 62, 3814-3824.	7.8	258
97	Dualâ€threshold sleep mode control scheme for small cells. IET Communications, 2014, 8, 2008-2016.	2.2	23
98	Genetic algorithm based access control in downlink open access small cell networks. , 2013, , .		2
99	Energy consumption tradeoff between network and user equipment in small cell networks. , 2013, , .		2
100	Distributed resource allocation for D2D communication underlaying cellular networks. , 2013, , .		36
101	Reference signal power control for load balancing in downlink LTE-A self-organizing networks. , 2012, , .		7
102	Inter-Tier Handover in Macrocell/Relay/Femtocell Heterogeneous Networks. , 2012, , .		7
103	Experimental results on OFDM-IDMA communications with carrier frequency offsets. , 2012, , .		11
104	Mechanical design of scientific instrument interface module in cabled seafloor observatory. , 2012, , .		1
105	Relay-aided cooperative Underwater acoustic communications: Selective relaying. , 2012, , .		14
106	Wavefront aberration correction for laser propagating over water with a closed-loop adaptive optical system. , 2012, , .		2
107	Initial spectrum access control with QoS protection for active users in cognitive wireless networks. International Journal of Communication Systems, 2012, 25, 636-651.	2.5	10
108	Resource Allocation in Multi-channel Multi-user Relay System with Fairness Constraints. Wireless Personal Communications, 2012, 62, 831-858.	2.7	0

#	ARTICLE	IF	CITATIONS
109	A node grouping algorithm for joint relay selection and resource allocation in cooperative cognitive radio networks. , 2011, , .		3
110	Optimizing the battery energy efficiency in wireless sensor networks. , 2011, , .		4
111	OFDM-IDMA communications over underwater acoustic channels. , 2011, , .		7
112	Single carrier FDMA over underwater acoustic channels. , 2011, , .		8
113	OFDM-IDMA for power line communications. , 2011, , .		3
114	Centralized and distributed resource allocation in OFDM based multi-relay system. Journal of Zhejiang University: Science C, 2010, 11, 450-464.	0.7	3
115	Joint Resource Allocation in Multiple Channels, Multiple Relays Systems. , 2010, , .		2
116	Stochastic Optimization for Joint Resource Allocation in OFDMA-Based Relay System. , 2010, , .		0
117	A novel successive relaying protocol based on superposition coding. , 2010, , .		0
118	Optimal joint resource allocation in OFDMA-based relay system. , 2010, , .		0
119	A novel ARQ protocol for OFDMA relay system based on network coding. , 2010, , .		0
120	Multi-channel Cooperative Spectrum Sensing Based on Belief Propagation Algorithm. , 2009, , .		1
121	Joint resource allocation in multiple channels, single non-regenerative relay system. , 2009, , .		1
122	Enhanced cooperative source diversity for multicast services with heterogeneous coverage. , 2009, , .		0
123	A wideband multi-resolution spectrum sensing method based on belief propagation. , 2009, , .		3
124	Joint optimal power allocation, relay selection and subchannel pairing in OFDM based regenerative relay networks. , 2009, , .		0
125	Distributed joint optimization of relay selection and subchannel pairing in OFDM based relay networks. , 2009, , .		6
126	Cross-layer bandwidth and power allocation for a two-hop link in wireless mesh network. Wireless Communications and Mobile Computing, 2009, 9, 155-167.	1.2	1

#	Article	IF	Citations
127	Distributed power control with gradual removal in cognitive radio cellular network. , 2009, , .		1
128	On cognitive radio networks with opportunistic power control strategies in fading channels. IEEE Transactions on Wireless Communications, 2008, 7, 2752-2761.	9.2	199
129	Cognitive spectrum access with joint opportunistic power and rate control in fading channels. , 2008, , .		4
130	Cognitive cooperative relaying. , 2008, , .		4
131	Performance Comparison of IEEE 802.16e and IEEE 802.20 Systems under Different Frequency Reuse Schemes. , 2008, , .		1
132	On achievable rates and spectrum allocation in cognitive wireless networks. , 2008, , .		0
133	A Cross-Layer Design Method for Multiple Realtime Video Streams in Multi-Hop Wireless Networks. , 2007, , .		0
134	Adaptive Power Allocation for Cooperative Relaying System in Fading Wireless Channel. , 2007, , .		5
135	Partial Channel State Information Based Cooperative Relaying and Partner Selection. , 2007, , .		13
136	Adaptive subcarrier and bit allocation in OFDMA systems supporting heterogeneous services. Wireless Personal Communications, 2007, 43, 1057-1070.	2.7	11
137	Cross-Layer Performance Analysis of Two-Hop Wireless Links with Adaptive Modulation. , 2006, , .		3
138	Power-Aware Cooperative Relay Selection Strategies in Wireless Ad Hoc Networks. , 2006, , .		51
139	Subcarrier and bit allocation for OFDMA systems with proportional fairness. , 2006, , .		23
140	Cooperative ARQ protocol for correlated wireless channels. Journal of Electronics, 2006, 23, 594-597.	0.2	0
141	Joint Allocation of Bandwidth and Power for Heterogeneous Services. , 2006, , .		3
142	A Novel Resource Allocation Algorithm for Real-time Services in Multiuser OFDM Systems. , 0, , .		18
143	Resource Allocation in OFDM based Multihop Wireless Networks. , 0, , .		14