Guanding Yu

List of Publications by Year
in descending order

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114	2,461	304743	254184
papers	citations	22	43
		h-index	g-index

114	114	114	2103
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Decentralized Inference With Graph Neural Networks in Wireless Communication Systems. IEEE Transactions on Mobile Computing, 2023, 22, 2582-2598.	5.8	15
2	A Fast Graph Neural Network-Based Method for Winner Determination in Multi-Unit Combinatorial Auctions. IEEE Transactions on Cloud Computing, 2022, 10, 2264-2280.	4.4	8
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	Joint User Association and Resource Allocation for Wireless Hierarchical Federated Learning With IID and Non-IID Data. IEEE Transactions on Wireless Communications, 2022, 21, 7852-7866.	9.2	26
10	Two-Timescale Resource Management for Ultrareliable and Low-Latency Vehicular Communications. IEEE Transactions on Communications, 2022, 70, 3282-3294.	7.8	4
11	Deep-Learning-Based Resource Allocation for Time-Sensitive Device-to-Device Networks. Sensors, 2022, 22, 1551.	3.8	2
12	KFIML: Kubernetes-Based Fog Computing IoT Platform for Online Machine Learning. IEEE Internet of Things Journal, 2022, 9, 19463-19476.	8.7	12
13	Decentralized Edge Learning via Unreliable Device-to-Device Communications. IEEE Transactions on Wireless Communications, 2022, 21, 9041-9055.	9.2	3
14	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
15	Accelerating Generalized Benders Decomposition for Wireless Resource Allocation. IEEE Transactions on Wireless Communications, 2021, 20, 1233-1247.	9.2	13
16	Joint resource allocation over licensed and unlicensed spectrum in U-LTE networks. Wireless Networks, 2021, 27, 1089-1102.	3.0	2
17	User Association for Millimeter-Wave Ultra-Reliable Low-Latency Communications. IEEE Wireless Communications Letters, 2021, 10, 315-319.	5.0	2
18	Accelerating DNN Training in Wireless Federated Edge Learning Systems. IEEE Journal on Selected Areas in Communications, 2021, 39, 219-232.	14.0	105

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19	Graph Embedding-Based Wireless Link Scheduling With Few Training Samples. IEEE Transactions on Wireless Communications, 2021, 20, 2282-2294.	9.2	54
20	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
21	Coexistence algorithms for LTE and WiFi networks in unlicensed spectrum: performance optimization and comparison. Wireless Networks, 2021, 27, 1875-1885.	3.0	7
22	Hybrid Precoding Design Based on Dual-Layer Deep-Unfolding Neural Network. , 2021, , .		4
23	Adaptive Modulation for Wireless Federated Learning. , 2021, , .		2
24	Adaptive Channel Detection for Full-Duplex Based IAB Systems on Unlicensed Channels. , 2021, , .		0
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	Unitary Matrix Method for PAPR Reduction of IDFT-VFDM Signals. IEEE Wireless Communications Letters, 2020, 9, 2107-2111.	5.0	1
28	Wireless Link Scheduling for D2D Communications with Graph Embedding Technique. , 2020, , .		3
29	IEEE Access Special Section Editorial: Mobile Edge Computing and Mobile Cloud Computing: Addressing Heterogeneity and Energy Issues of Compute and Network Resources. IEEE Access, 2020, 8, 163769-163774.	4.2	3
30	Importance-Aware Data Selection and Resource Allocation in Federated Edge Learning System. IEEE Transactions on Vehicular Technology, 2020, 69, 13593-13605.	6.3	35
31	Scheduling for Cellular Federated Edge Learning With Importance and Channel Awareness. IEEE Transactions on Wireless Communications, 2020, 19, 7690-7703.	9.2	128
32	BiLSTM Based Reinforcement Learning for Resource Allocation and User Association in LTE-U Networks. Wireless Personal Communications, 2020, 114, 2629-2641.	2.7	0
33	AUV-Aided Energy-Efficient Data Collection in Underwater Acoustic Sensor Networks. IEEE Internet of Things Journal, 2020, 7, 10010-10022.	8.7	105
34	Optimizing the Learning Performance in Mobile Augmented Reality Systems With CNN. IEEE Transactions on Wireless Communications, 2020, 19, 5333-5344.	9.2	14
35	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
36	Minority Game for Distributed User Association in Unlicensed Heterogenous Networks. IEEE Transactions on Wireless Communications, 2020, 19, 4220-4233.	9.2	11

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37	Optimizing the Learning Accuracy in Mobile Augmented Reality Systems with CNN. , 2020, , .		3
38	Power Allocation for Full-Duplex Communication Systems Based on Deep Deterministic Policy Gradient. , 2020, , .		1
39	Adaptive Batchsize Selection and Gradient Compression for Wireless Federated Learning. , 2020, , .		5
40	Resource Allocation for Wireless Federated Edge Learning based on Data Importance. , 2020, , .		2
41	Deep Reinforcement Learning-Based User Pairing in Full-Duplex Communication Systems. , 2020, , .		2
42	Importance- and Channel-Aware Scheduling in Cellular Federated Edge Learning. , 2020, , .		1
43	Wireless D2D Network Link Scheduling based on Graph Embedding. , 2020, , .		0
44	Machine Learning-Based Resource Optimization for D2D Communication Underlaying Networks. , 2020, , .		4
45	A Distributed Network Selection Method Based on Minority Game for LTE in Unlicensed Bands. , 2019, , .		4
46	Joint Computation Offloading and Resource Allocation in D2D Enabled MEC Networks. , 2019, , .		25
47	Adaptive PCA Based Channel Estimation and Tracking for URA Massive MIMO Systems. , 2019, , .		1
48	Data Transmission in Mobile Edge Networks: Whether and Where to Compress?. IEEE Communications Letters, 2019, 23, 490-493.	4.1	15
49	Optimizing Feedback User Selection for Standalone U-LTE Networks With Randomly Delayed CSI. IEEE Wireless Communications Letters, 2019, 8, 1236-1239.	5.0	2
50	A Distributed User Association Method for LTE-U by Enabling Q-Learning in Minority Game. , 2019, , .		0
51	IDFT-VFDM for LTE FDD-NR SUL Co-existence. , 2019, , .		1
52	Throughput Analysis of LAA and Wi-Fi Coexistence Network With Asynchronous Channel Access. IEEE Access, 2018, 6, 9218-9226.	4.2	15
53	Bidirectional Mobile Offloading in LTE-U and WiFi Coexistence Systems. , 2018, , .		2
54	Data Offloading and Sharing for Latency Minimization in Augmented Reality Based on Mobile-Edge Computing. , 2018, , .		5

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55	Multi-Agent Reinforcement Learning Based Unlicensed Resource Sharing for LTE-U Networks. , 2018, , .		0
56	Joint Optimization of Computation Offloading and UL/DL Resource Allocation in MEC Systems. , 2018, , .		6
57	Multi-Homing in Unlicensed LTE Networks. , 2018, , .		5
58	Joint User Association and Resource Optimization for Unlicensed LTE Systems. , 2018, , .		7
59	FdICIC: Inter-cell Interference Coordination for Full-Duplex Cellular Systems. Wireless Personal Communications, 2018, 101, 1-22.	2.7	21
60	Deep Neural Networks for Linear Sum Assignment Problems. IEEE Wireless Communications Letters, 2018, 7, 962-965.	5.0	57
61	Design and Analysis of Random Access for Standalone LTE-U Systems. IEEE Transactions on Vehicular Technology, 2018, 67, 9347-9361.	6.3	10
62	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
63	Interference coordination for small cell networks with full-duplex base stations. , 2017, , .		1
64	Power control, user scheduling and resource Allocation for Downlink NOMA Systems with Imperfect Channel State Information. , 2017, , .		4
65	Joint subcarrier and power allocation for OFDMA based mobile edge computing system. , 2017, , .		24
66	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
67	LBT-Based Adaptive Channel Access for LTE-U Systems. IEEE Transactions on Wireless Communications, 2016, 15, 6585-6597.	9.2	117
68	Joint user pairing, resource block allocation, and power control for full-duplex cellular networks. , 2016, , .		1
69	Energy Efficiency Optimization for Non-Orthogonal Spectrum Sharing. , 2016, , .		0
70	Tradeoff between co-channel Interference and collision probability in LAA systems. , 2016, , .		6
71	Guest Editorial: LTE in Unlicensed Spectrum. IEEE Wireless Communications, 2016, 23, 6-7.	9.0	5
72	Joint user scheduling and channel allocation for cellular networks with full duplex base stations. IET Communications, 2016, 10, 479-486.	2.2	27

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73	Energy-efficient multi-objective power allocation for multi-user AF cooperative networks. , 2016, , .		3
74	Energy-efficient mode selection and power control for device-to-device communications. , 2016, , .		6
75	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
76	Fullâ€duplex and halfâ€duplex: power efficiency comparison. Electronics Letters, 2016, 52, 483-485.	1.0	8
77	Cellular Meets WiFi: Traffic Offloading or Resource Sharing?. IEEE Transactions on Wireless Communications, 2016, 15, 3354-3367.	9.2	119
78	Time-division cellular networks with full-duplex base stations. IEEE Communications Letters, 2016, 20, 392-395.	4.1	30
79	Adaptive LBT for Licensed Assisted Access LTE Networks. , 2015, , .		24
80	Adaptive biasing scheme for load balancing in backhaul constrained small cell networks. IET Communications, 2015, 9, 999-1005.	2.2	10
81	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
82	An Opportunistic Unlicensed Spectrum Utilization Method for LTE and WiFi Coexistence System. , 2015, , .		7
83	Energy-efficient resource block allocation for licensed-assisted access. , 2015, , .		4
84	Joint Downlink and Uplink Resource Allocation for Energy-Efficient Carrier Aggregation. IEEE Transactions on Wireless Communications, 2015, 14, 3207-3218.	9.2	62
85	Energy-Efficient Resource Allocation in Single-Cell OFDMA Systems: Multi-Objective Approach. IEEE Transactions on Wireless Communications, 2015, 14, 5848-5858.	9.2	41
86	Interference coordination strategy based on Nash bargaining for smallâ€cell networks. IET Communications, 2015, 9, 1583-1590.	2.2	19
87	Decentralized interference coordination for D2D communication underlying cellular Networks. , 2015, , .		2
88	Energyâ€efficiency region for multiple access channels. Electronics Letters, 2014, 50, 959-961.	1.0	7
89	Joint Mode Selection and Resource Allocation for Device-to-Device Communications. IEEE Transactions on Communications, 2014, 62, 3814-3824.	7.8	258
90	Dualâ€threshold sleep mode control scheme for small cells. IET Communications, 2014, 8, 2008-2016.	2.2	23

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91	An Opportunistic Unlicensed Spectrum Utilization Method for LTE and WiFi Coexistence System. , 2014, , .		0
92	Adaptive LBT for Licensed Assisted Access LTE Networks. , 2014, , .		0
93	Joint downlink and uplink resource allocation for energy-efficient carrier aggregation. , 2014, , .		3
94	Sensing error aware delay-optimal channel allocation scheme for cognitive radio networks. Telecommunication Systems, 2013, 52, 1895-1904.	2.5	12
95	Joint Network-Channel Coding with Rateless Code in Two-Way Relay Systems. IEEE Transactions on Wireless Communications, 2013, 12, 3158-3169.	9.2	12
96	Energy Consumption Analysis of Energy Harvesting Systems with Power Grid. IEEE Wireless Communications Letters, 2013, 2, 611-614.	5.0	20
97	Joint channel-network coding with rateless code in two-way relay system. , 2012, , .		0
98	Interference-aware channel allocation for Device-to-Device communication underlaying cellular networks. , 2012, , .		25
99	A distributed relay selection method for relay assisted Device-to-Device communication system. , 2012, , .		71
100	Power Allocation for Relay-Assisted TDD Cellular System with Dynamic Frequency Reuse. IEEE Transactions on Wireless Communications, 2012, 11, 2424-2435.	9.2	4
101	Uplink channel reusing selection optimization for Device-to-Device communication underlaying cellular networks. , 2012, , .		53
102	Cognitive Radio Transmission Strategies Exploiting the Primary-Link Adaptivity. IEEE Transactions on Vehicular Technology, 2011, 60, 3805-3813.	6.3	4
103	Prediction-Based Spectrum Aggregation with Hardware Limitation in Cognitive Radio Networks. , 2010, , .		28
104	Optimal Resource Allocation for Cognitive Radio Networks with Imperfect Spectrum Sensing. , 2010, , .		11
105	Analysis of cognitive radio spectrum access with finite primary users and infinite secondary users. , 2010, , .		10
106	Space-Time-Energy based forwarding protocol for underwater acoustic sensor networks. , 2010, , .		2
107	Cross-Layer Iterative Decoding of Irregular LDPC Codes using Cyclic Redundancy Check Codes. , 2009, , .		4
108	Performance of Cyclostationary Features Based Spectrum Sensing Method in a Multiple Antenna Cognitive Radio System. , 2009, , .		18

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109	Optimal Bit and Power Allocation in Broadband Cognitive Radio System. IEEE Vehicular Technology Conference, 2008, , .	0.4	3
110	On the Secrecy Capacity of Fading Wireless Channel with Multiple Eavesdroppers. , 2007, , .		86
111	Adaptive subcarrier and bit allocation in OFDMA systems supporting heterogeneous services. Wireless Personal Communications, 2007, 43, 1057-1070.	2.7	11
112	WLC27-3: An Efficient Resource Allocation Algorithm for OFDMA Systems with Multiple Services. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	4
113	Cooperative ARQ in Wireless Networks: Protocols Description and Performance Analysis. , 2006, , .		58
114	Computing Efficient Antenna Selection Algorithms for MIMO-OFDM Systems. , 2006, , .		1