Mehdi Bennis

List of Publications by Year
in descending order

342 papers	23,315 citations	53 h-index	126 g-index
		36691	17373
347 all docs	347 docs citations	347 times ranked	14043 citing authors

#	Article	IF	Citations
1	An Energy and Carbon Footprint Analysis of Distributed and Federated Learning. IEEE Transactions on Green Communications and Networking, 2023, 7, 248-264.	3.5	10
2	Learning How to Configure LoRa Networks With No Regret: A Distributed Approach. IEEE Transactions on Industrial Informatics, 2023, 19, 5633-5644.	7.2	1
3	Millimeter Wave Communications With an Intelligent Reflector: Performance Optimization and Distributional Reinforcement Learning. IEEE Transactions on Wireless Communications, 2022, 21, 1836-1850.	6.1	18
4	Distributed Conditional Generative Adversarial Networks (GANs) for Data-Driven Millimeter Wave Communications in UAV Networks. IEEE Transactions on Wireless Communications, 2022, 21, 1438-1452.	6.1	12
5	Fast MIMO Beamforming via Deep Reinforcement Learning for High Mobility mmWave Connectivity. IEEE Journal on Selected Areas in Communications, 2022, 40, 127-142.	9.7	19
6	Communication-Efficient and Federated Multi-Agent Reinforcement Learning. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 311-320.	4.9	7
7	Vehicular Cooperative Perception Through Action Branching and Federated Reinforcement Learning. IEEE Transactions on Communications, 2022, 70, 891-903.	4.9	15
8	Learning, Computing, and Trustworthiness in Intelligent IoT Environments: Performance-Energy Tradeoffs. IEEE Transactions on Green Communications and Networking, 2022, 6, 629-644.	3.5	7
9	Communication Efficient Decentralized Learning Over Bipartite Graphs. IEEE Transactions on Wireless Communications, 2022, 21, 4150-4167.	6.1	6
10	Federated Learning-Based Content Popularity Prediction in Fog Radio Access Networks. IEEE Transactions on Wireless Communications, 2022, 21, 3836-3849.	6.1	9
11	Can Terahertz Provide High-Rate Reliable Low-Latency Communications for Wireless VR?. IEEE Internet of Things Journal, 2022, 9, 9712-9729.	5.5	39
12	Seven Defining Features of Terahertz (THz) Wireless Systems: A Fellowship of Communication and Sensing. IEEE Communications Surveys and Tutorials, 2022, 24, 967-993.	24.8	139
13	Information Freshness-Aware Task Offloading in Air-Ground Integrated Edge Computing Systems. IEEE Journal on Selected Areas in Communications, 2022, 40, 243-258.	9.7	37
14	Guest Editorial Special Issue on Distributed Learning Over Wireless Edge Networksâ€”Part II. IEEE Journal on Selected Areas in Communications, 2022, 40, 445-448.	9.7	0
15	Extreme ultra-reliable and low-latency communication. Nature Electronics, 2022, 5, 133-141.	13.1	33
16	Attention-Based Communication and Control for Multi-UAV Path Planning. IEEE Wireless Communications Letters, 2022, 11, 1409-1413.	3.2	8
17	LocFedMix-SL: Localize, Federate, and Mix for Improved Scalability, Convergence, and Latency in Split Learning. , 2022, , .		11
18	Variational Autoencoders for Reliability Optimization in Multi-Access Edge Computing Networks. , 2022, , .		1

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19	THz-Empowered UAVs in 6G: Opportunities, Challenges, and Trade-offs. IEEE Communications Magazine, 2022, 60, 24-30.	4.9	28
20	Cell-Free mmWave Massive MIMO Systems With Low-Capacity Fronthaul Links and Low-Resolution ADC/DACs. IEEE Transactions on Vehicular Technology, 2022, 71, 10512-10526.	3.9	7
21	Federated Learning on the Road Autonomous Controller Design for Connected and Autonomous Vehicles. IEEE Transactions on Wireless Communications, 2022, 21, 10407-10423.	6.1	24
22	Joint Superposition Coding and Training for Federated Learning over Multi-Width Neural Networks. , 2022, , .		4
23	Time-Triggered Federated Learning Over Wireless Networks. IEEE Transactions on Wireless Communications, 2022, 21, 11066-11079.	6.1	6
24	Computation Offloading and Resource Allocation in F-RANs: A Federated Deep Reinforcement Learning Approach. , 2022, , .		9
25	Hiding in the Crowd: Federated Data Augmentation for On-Device Learning. IEEE Intelligent Systems, 2021, 36, 80-87.	4.0	6
26	Communication and Consensus Co-Design for Distributed, Low-Latency, and Reliable Wireless Systems. IEEE Internet of Things Journal, 2021, 8, 129-143.	5.5	19
27	Network slicing for vehicular communication. Transactions on Emerging Telecommunications Technologies, 2021, 32, .	2.6	25
28	Predictive Deployment of UAV Base Stations in Wireless Networks: Machine Learning Meets Contract Theory. IEEE Transactions on Wireless Communications, 2021, 20, 637-652.	6.1	54
29	Multikernel Clustering via Non-Negative Matrix Factorization Tailored Graph Tensor Over Distributed Networks. IEEE Journal on Selected Areas in Communications, 2021, 39, 1946-1956.	9.7	17
30	Q-GADMM: Quantized Group ADMM for Communication Efficient Decentralized Machine Learning. IEEE Transactions on Communications, 2021, 69, 164-181.	4.9	22
31	Adaptive Subcarrier, Parameter, and Power Allocation for Partitioned Edge Learning Over Broadband Channels. IEEE Transactions on Wireless Communications, 2021, 20, 8348-8361.	6.1	4
32	UAV-Assisted Communication in Remote Disaster Areas Using Imitation Learning. IEEE Open Journal of the Communications Society, 2021, 2, 738-753.	4.4	11
33	Federated Learning and Control at the Wireless Network Edge. GetMobile (New York, N Y), 2021, 24, 9-13.	0.7	2
34	Ultra-Reliable Indoor Millimeter Wave Communications Using Multiple Artificial Intelligence-Powered Intelligent Surfaces. IEEE Transactions on Communications, 2021, 69, 7444-7457.	4.9	2
35	Opportunities of Federated Learning in Connected, Cooperative, and Automated Industrial Systems. IEEE Communications Magazine, 2021, 59, 16-21.	4.9	68
36	Predictive Ultra-Reliable Communication: A Survival Analysis Perspective. IEEE Communications Letters, 2021, 25, 1221-1225.	2.5	9

#	Article	IF	Citations
37	Communication-Efficient and Distributed Learning Over Wireless Networks: Principles and Applications. Proceedings of the IEEE, 2021, 109, 796-819.	16.4	100
38	Sum Rate and Reliability Analysis for Power-Domain Nonorthogonal Multiple Access (PD-NOMA). IEEE Internet of Things Journal, 2021, 8, 10160-10169.	5.5	12
39	Cooperative Edge Caching via Federated Deep Reinforcement Learning in Fog-RANs. , 2021, , .		14
40	When Wireless Communications Meet Computer Vision in Beyond 5G. IEEE Communications Standards Magazine, 2021, 5, 76-83.	3.6	19
41	BayGo: Joint Bayesian Learning and Information-Aware Graph Optimization. , 2021, , .		2
42	Intelligent Resource Slicing for eMBB and URLLC Coexistence in 5G and Beyond: A Deep Reinforcement Learning Based Approach. IEEE Transactions on Wireless Communications, 2021, 20, 4585-4600.	6.1	149
43	Link Activation Using Variational Graph Autoencoders. IEEE Communications Letters, 2021, 25, 2358-2361.	2.5	2
44	Harnessing Wireless Channels for Scalable and Privacy-Preserving Federated Learning. IEEE Transactions on Communications, 2021, 69, 5194-5208.	4.9	30
45	Joint Client Scheduling and Resource Allocation Under Channel Uncertainty in Federated Learning. IEEE Transactions on Communications, 2021, 69, 5962-5974.	4.9	30
46	Predictive Control and Communication Co-Design via Two-Way Gaussian Process Regression and AoI-Aware Scheduling. IEEE Transactions on Communications, 2021, 69, 7077-7093.	4.9	19
47	Distributed Learning in Wireless Networks: Recent Progress and Future Challenges. IEEE Journal on Selected Areas in Communications, 2021, 39, 3579-3605.	9.7	201
48	Age-Optimal Power Allocation in Industrial IoT: A Risk-Sensitive Federated Learning Approach. , 2021, , .		3
49	Attention-based Reinforcement Learning for Real-Time UAV Semantic Communication. , 2021, , .		16
50	Federated Learning with Correlated Data: Taming the Tail for Age-Optimal Industrial IoT. , 2021, , .		3
51	Communication-Efficient and Personalized Federated Lottery Ticket Learning. , 2021, , .		2
52	End-to-End Intent-Based Networking. IEEE Communications Magazine, 2021, 59, 106-112.	4.9	25
53	Energy-Efficient Model Compression and Splitting for Collaborative Inference Over Time-Varying Channels. , 2021, , .		6
54	Split Learning Meets Koopman Theory for Wireless Remote Monitoring and Prediction. , 2021, , .		3

#	Article	IF	Citations
55	Guest Editorial Special Issue on Distributed Learning Over Wireless Edge Networksâ€"Part I. IEEE Journal on Selected Areas in Communications, 2021, 39, 3575-3578.	9.7	1
56	Energy-Efficient and Federated Meta-Learning via Projected Stochastic Gradient Ascent. , 2021, , .		2
57	Federated Learning for Collaborative Controller Design of Connected and Autonomous Vehicles. , 2021, , .		9
58	Communication-Efficient Split Learning Based on Analog Communication and Over the Air Aggregation. , 2021, , .		11
59	Decentralized Asynchronous Coded Caching Design and Performance Analysis in Fog Radio Access Networks. IEEE Transactions on Mobile Computing, 2020, 19, 540-551.	3.9	24
60	A Vision of 6G Wireless Systems: Applications, Trends, Technologies, and Open Research Problems. IEEE Network, 2020, 34, 134-142.	4.9	2,182
61	Blockchained On-Device Federated Learning. IEEE Communications Letters, 2020, 24, 1279-1283.	2.5	449
62	A Mean Field Game-Based Distributed Edge Caching in Fog Radio Access Networks. IEEE Transactions on Communications, 2020, 68, 1567-1580.	4.9	32
63	Ultra-Reliable and Low-Latency Vehicular Communication: An Active Learning Approach. IEEE Communications Letters, 2020, 24, 367-370.	2.5	30
64	Distributed Federated Learning for Ultra-Reliable Low-Latency Vehicular Communications. IEEE Transactions on Communications, 2020, 68, 1146-1159.	4.9	240
65	Risk-Sensitive Task Fetching and Offloading for Vehicular Edge Computing. IEEE Communications Letters, 2020, 24, 617-621.	2.5	21
66	Optimized Age of Information Tail for Ultra-Reliable Low-Latency Communications in Vehicular Networks. IEEE Transactions on Communications, 2020, 68, 1911-1924.	4.9	79
67	Communication-Efficient Massive UAV Online Path Control: Federated Learning Meets Mean-Field Game Theory. IEEE Transactions on Communications, 2020, 68, 6840-6857.	4.9	52
68	A Joint Decentralized Federated Learning and Communications Framework for Industrial Networks. , 2020, , .		9
69	Data-Driven Predictive Scheduling in Ultra-Reliable Low-Latency Industrial IoT: A Generative Adversarial Network Approach. , 2020, , .		7
70	Mix2FLD: Downlink Federated Learning After Uplink Federated Distillation With Two-Way Mixup. IEEE Communications Letters, 2020, 24, 2211-2215.	2.5	27
71	Deep Learning Assisted CSI Estimation for Joint URLLC and eMBB Resource Allocation. , 2020, , .		14
72	Content Popularity Prediction in Fog Radio Access Networks: A Federated Learning Based Approach. , 2020, , .		17

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73	Proxy Experience Replay: Federated Distillation for Distributed Reinforcement Learning. IEEE Intelligent Systems, 2020, 35, 94-101.	4.0	17
74	Federated Learning in the Sky: Joint Power Allocation and Scheduling with UAV Swarms. , 2020, , .		100
75	Joint Parameter-and-Bandwidth Allocation for Improving the Efficiency of Partitioned Edge Learning. IEEE Transactions on Wireless Communications, 2020, 19, 8272-8286.	6.1	32
76	Risk-Aware Optimization of Age of Information in the Internet of Things. , 2020, , .		10
77	Risk-Based Optimization of Virtual Reality over Terahertz Reconfigurable Intelligent Surfaces. , 2020, , .		42
78	Predictive Control and Communication Co-Design: A Gaussian Process Regression Approach. , 2020, , .		7
79	Joint Redundant MDS Codes and Cluster Cooperation Based Coded Caching in Fog Radio Access Networks. , 2020, , .		2
80	A Speculative Study on 6G. IEEE Wireless Communications, 2020, 27, 118-125.	6.6	472
81	1 A Deep Reinforcement Learning Framework to Combat Dynamic Blockage in mmWave V2X Networks. , 2020, , .		6
82	Performance Analysis of Blockchain Systems With Wireless Mobile Miners. IEEE Networking Letters, 2020, 2, 111-115.	1.5	15
83	Q-GADMM: Quantized Group ADMM for Communication Efficient Decentralized Machine Learning. , 2020, , .		11
84	Cellular-Connected Wireless Virtual Reality: Requirements, Challenges, and Solutions. IEEE Communications Magazine, 2020, 58, 105-111.	4.9	92
85	Link-Level Throughput Maximization Using Deep Reinforcement Learning. IEEE Networking Letters, 2020, 2, 101-105.	1.5	1
86	Remote UAV Online Path Planning via Neural Network-Based Opportunistic Control. IEEE Wireless Communications Letters, 2020, 9, 861-865.	3.2	32
87	Communication-Efficient Multimodal Split Learning for mmWave Received Power Prediction. IEEE Communications Letters, 2020, 24, 1284-1288.	2.5	35
88	Intelligent Edge: Leveraging Deep Imitation Learning for Mobile Edge Computation Offloading. IEEE Wireless Communications, 2020, 27, 92-99.	6.6	64
89	Enhancing Video Streaming in Vehicular Networks via Resource Slicing. IEEE Transactions on Vehicular Technology, 2020, 69, 3513-3522.	3.9	30
90	Maximum Allowable Transfer Interval Aware Scheduling for Wireless Remote Monitoring. , 2020, , .		1

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91	Federated Learning under Channel Uncertainty: Joint Client Scheduling and Resource Allocation. , 2020, , .		35
92	L-FGADMM: Layer-Wise Federated Group ADMM for Communication Efficient Decentralized Deep Learning. , 2020, , .		6
93	Resource Awareness In Unmanned Aerial Vehicle-Assisted Mobile-Edge Computing Systems. , 2020, , .		24
94	Perineural dexamethasone attenuates liposomal bupivacaine-induced delayed neural inflammation in mice inÂvivo. British Journal of Anaesthesia, 2020, 125, 175-183.	1.5	7
95	A Crowdsourcing Framework for On-Device Federated Learning. IEEE Transactions on Wireless Communications, 2020, 19, 3241-3256.	6.1	175
96	Age of Information Aware Radio Resource Management in Vehicular Networks: A Proactive Deep Reinforcement Learning Perspective. IEEE Transactions on Wireless Communications, 2020, 19, 2268-2281.	6.1	118
97	Mean-Field Game Theoretic Edge Caching in Ultra-Dense Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 935-947.	3.9	15
98	Taming the Latency in Multi-User VR 360Â°: A QoE-Aware Deep Learning-Aided Multicast Framework. IEEE Transactions on Communications, 2020, 68, 2491-2508.	4.9	68
99	Optimized Caching and Spectrum Partitioning for D2D Enabled Cellular Systems With Clustered Devices. IEEE Transactions on Communications, 2020, 68, 4358-4374.	4.9	12
100	Phase Configuration Learning in Wireless Networks with Multiple Reconfigurable Intelligent Surfaces. , 2020, , .		27
101	Distributional Reinforcement Learning for mmWave Communications with Intelligent Reflectors on a UAV. , 2020, , .		12
102	Communication Efficient Framework for Decentralized Machine Learning. , 2020, , .		9
103	Full-Duplex Non-Orthogonal Multiple Access Networks. , 2019, , 285-303.		1
104	Optimized Deployment of Millimeter Wave Networks for In-Venue Regions With Stochastic Usersâ€™ Orientation. IEEE Transactions on Wireless Communications, 2019, 18, 5037-5049.	6.1	7
105	Power Control via Stackelberg Game for Small-Cell Networks. Wireless Communications and Mobile Computing, 2019, 2019, 1-10.	0.8	4
106	Decentralized Deep Reinforcement Learning for Delay-Power Tradeoff in Vehicular Communications. , 2019, , .		3
107	Distributed Edge Caching via Reinforcement Learning in Fog Radio Access Networks. , 2019, , .		24
108	Resource virtualization with edge caching and latency constraint for local B5G operator. , 2019, , .		2

#	Article	IF	Citations
109	Wireless Network Intelligence at the Edge. Proceedings of the IEEE, 2019, 107, 2204-2239.	16.4	360
110	Joint Communication and Control System Design for Connected and Autonomous Vehicle Navigation. , 2019, , .		3
111	Joint Communication and Control for Wireless Autonomous Vehicular Platoon Systems. IEEE Transactions on Communications, 2019, 67, 7907-7922.	4.9	98
112	Multi-Tenant Cross-Slice Resource Orchestration: A Deep Reinforcement Learning Approach. IEEE Journal on Selected Areas in Communications, 2019, 37, 2377-2392.	9.7	96
113	A Proximal Jacobian ADMM Approach for Fast Massive MIMO Signal Detection in Low-Latency Communications. , 2019, , .		6
114	Edge Caching Resource Allocation in Fog Radio Access Networks: An Incentive Mechanism Based Approach. , 2019, , .		3
115	Reinforcement Learning-Based Vehicle-Cell Association Algorithm for Highly Mobile Millimeter Wave Communication. IEEE Transactions on Cognitive Communications and Networking, 2019, 5, 1073-1085.	4.9	31
116	Wireless Edge Computing With Latency and Reliability Guarantees. Proceedings of the IEEE, 2019, 107, 1717-1737.	16.4	100
117	Joint Path Selection and Rate Allocation Framework for 5G Self-Backhauled mm-wave Networks. IEEE Transactions on Wireless Communications, 2019, 18, 2431-2445.	6.1	41
118	A Tutorial on UAVs for Wireless Networks: Applications, Challenges, and Open Problems. IEEE Communications Surveys and Tutorials, 2019, 21, 2334-2360.	24.8	1,602
119	eMBB-URLLC Resource Slicing: A Risk-Sensitive Approach. IEEE Communications Letters, 2019, 23, 740-743.	2.5	148
120	An Online Optimization Framework for Distributed Fog Network Formation With Minimal Latency. IEEE Transactions on Wireless Communications, 2019, 18, 2244-2258.	6.1	73
121	Joint Cache Allocation With Incentive and User Association in Cloud Radio Access Networks Using Hierarchical Game. IEEE Access, 2019, 7, 20773-20788.	2.6	9
122	Learning to Entangle Radio Resources in Vehicular Communications: An Oblivious Game-Theoretic Perspective. IEEE Transactions on Vehicular Technology, 2019, 68, 4262-4274.	3.9	10
123	Integrated Millimeter Wave and Sub-6 GHz Wireless Networks: A Roadmap for Joint Mobile Broadband and Ultra-Reliable Low-Latency Communications. IEEE Wireless Communications, 2019, 26, 109-115.	6.6	98
124	Dynamic Task Offloading and Resource Allocation for Ultra-Reliable Low-Latency Edge Computing. IEEE Transactions on Communications, 2019, 67, 4132-4150.	4.9	266
125	Reflections in the Sky: Millimeter Wave Communication with UAV-Carried Intelligent Reflectors. , 2019, , .		100
126	Massive Autonomous UAV Path Planning: A Neural Network Based Mean-Field Game Theoretic Approach. , 2019, , .		38

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127	Reinforcement Learning Based Scheduling Algorithm for Optimizing Age of Information in Ultra Reliable Low Latency Networks. , 2019, , .		31
128	Dynamic Radio Frame Configuration by Exploiting Uplink Control Channel for URLLC. , 2019, , .		0
129	Cooperative Edge Caching in Fog Radio Access Networks: A Pigeon Inspired Optimization Approach. , 2019, , .		8
130	Dependence Control for Reliability Optimization in Vehicular Networks. , 2019, , .		0
131	Secrecy Preserving in Stochastic Resource Orchestration for Multi-Tenancy Network Slicing. , 2019, , .		1
132	Ultra-Reliable Millimeter-Wave Communications Using an Artificial Intelligence-Powered Reflector. , 2019, , .		4
133	Incentivize to Build: A Crowdsourcing Framework for Federated Learning. , 2019, , .		24
134	Taming the Tail of Maximal Information Age in Wireless Industrial Networks. IEEE Communications Letters, 2019, 23, 2442-2446.	2.5	28
135	Cooperative caching in fog radio access networks: a graphâ€based approach. IET Communications, 2019, 13, 3519-3528.	1.5	16
136	User Preference Learning-Based Edge Caching for Fog Radio Access Network. IEEE Transactions on Communications, 2019, 67, 1268-1283.	4.9	139
137	Beyond 5G With UAVs: Foundations of a 3D Wireless Cellular Network. IEEE Transactions on Wireless Communications, 2019, 18, 357-372.	6.1	307
138	Optimized Computation Offloading Performance in Virtual Edge Computing Systems Via Deep Reinforcement Learning. IEEE Internet of Things Journal, 2019, 6, 4005-4018.	5.5	467
139	Communications and Control for Wireless Drone-Based Antenna Array. IEEE Transactions on Communications, 2019, 67, 820-834.	4.9	76
140	One Pixel Image and RF Signal Based Split Learning for mmWave Received Power Prediction. , 2019, , .		8
141	Wireless Resource Scheduling in Virtualized Radio Access Networks Using Stochastic Learning. IEEE Transactions on Mobile Computing, 2018, 17, 961-974.	3.9	41
142	Caching Meets Millimeter Wave Communications for Enhanced Mobility Management in 5G Networks. IEEE Transactions on Wireless Communications, 2018, 17, 779-793.	6.1	67
143	Ultra-Reliable Communication in 5G mmWave Networks: A Risk-Sensitive Approach. IEEE Communications Letters, 2018, 22, 708-711.	2.5	27
144	Fronthaul-Aware Software-Defined Wireless Networks: Resource Allocation and User Scheduling. IEEE Transactions on Wireless Communications, 2018, 17, 533-547.	6.1	13

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145	Toward Low-Latency and Ultra-Reliable Virtual Reality. IEEE Network, 2018, 32, 78-84.	4.9	389
146	HSDRAN: Hierarchical Software-Defined Radio Access Network for Distributed Optimization. IEEE Transactions on Vehicular Technology, 2018, 67, 8623-8636.	3.9	9
147	Learning-Based Caching in Cloud-Aided Wireless Networks. IEEE Communications Letters, 2018, 22, 137-140.	2.5	22
148	Ultra-Reliable Low-Latency Vehicular Networks: Taming the Age of Information Tail. , 2018, , .		50
149	Consensus-Before-Talk: Distributed Dynamic Spectrum Access via Distributed Spectrum Ledger Technology. , 2018, , .		16
150	Performance Analysis and Caching Design in Fog Radio Access Networks. , 2018, , .		15
151	Green Fog Offloading Strategy for Heterogeneous Wireless Edge Networks. , 2018, , .		6
152	Performance Optimization in Mobile-Edge Computing via Deep Reinforcement Learning. , 2018, , .		95
153	URLLC-eMBB Slicing to Support VR Multimodal Perceptions over Wireless Cellular Systems. , 2018, , .		40
154	A Quitting Game Framework for Self-Organized D2D Mobile Relaying in 5G. , 2018, , .		0
155	Online Optimization for UAV-Assisted Distributed Fog Computing in Smart Factories of Industry 4.0. , 2018, , .		19
156	Federated Learning for Ultra-Reliable Low-Latency V2V Communications. , 2018, , .		144
157	3D Cellular Network Architecture with Drones for beyond 5G. , 2018, , .		9
158	Machine Learning for Predictive On-Demand Deployment of Uavs for Wireless Communications. , 2018, , .		69
159	Wireless Communications and Control for Swarms of Cellular-Connected UAVs. , 2018, , .		27
160	On Minimizing Energy Consumption for D2D Clustered Caching Networks. , 2018, , .		14
161	Distributed Edge Caching in Ultra-Dense Fog Radio Access Networks: A Mean Field Approach. , 2018, , .		10
162	Decentralized Asynchronous Coded Caching in Fog-RAN. , 2018, , .		3

#	Article	IF	Citations
163	Ultrareliable and Low-Latency Wireless Communication: Tail, Risk, and Scale. Proceedings of the IEEE, 2018, 106, 1834-1853.	16.4	590
164	Integrated Communications and Control Co-Design for Wireless Vehicular Platoon Systems. , 2018, , .		16
165	Drone-Based Antenna Array for Service Time Minimization in Wireless Networks. , 2018, , .		15
166	Dynamic Resource Allocation for Optimized Latency and Reliability in Vehicular Networks. IEEE Access, 2018, 6, 63843-63858.	2.6	43
167	Massive UAV-to-Ground Communication and its Stable Movement Control: A Mean-Field Approach. , 2018, , .		32
168	Proactive edge computing in fog networks with latency and reliability guarantees. Eurasip Journal on Wireless Communications and Networking, 2018, 2018, .	1.5	27
169	Ultra-Reliable and Low-Latency Vehicular Transmission: An Extreme Value Theory Approach. IEEE Communications Letters, 2018, 22, 1292-1295.	2.5	53
170	Heterogeneous Ultra Dense Networks: Part 2. , 2018, 56, 12-13.		5
171	Collaborative Artificial Intelligence (AI) for User-Cell Association in Ultra-Dense Cellular Systems. , 2018, , .		19
172	Inter-Cluster Cooperation for Wireless D2D Caching Networks. IEEE Transactions on Wireless Communications, 2018, 17, 6108-6121.	6.1	47
173	Path selection and rate allocation in self-backhauled mmWave networks. , 2018, , .		26
174	Edge computing meets millimeter-wave enabled VR: Paving the way to cutting the cord. , 2018, , .		59
175	Energy-Efficient Noncooperative Power Control in Small-Cell Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 7540-7547.	3.9	14
176	On the interplay between scheduling interval and beamwidth selection for low-latency and reliable V2V mmWave communications. , 2017, , .		8
177	Adapting Downlink Power in Fronthaul-Constrained Hierarchical Software-Defined RANs. , 2017, , .		7
178	Enhanced Co-Primary Spectrum Sharing Method for Multi-Operator Networks. IEEE Transactions on Mobile Computing, 2017, 16, 3347-3360.	3.9	10
179	Ultra-Reliable and Low Latency Communication in mmWave-Enabled Massive MIMO Networks. IEEE Communications Letters, 2017, 21, 2041-2044.	2.5	92
180	Optimal Transport Theory for Cell Association in UAV-Enabled Cellular Networks. IEEE Communications Letters, 2017, 21, 2053-2056.	2.5	94

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181	Guest Editorial Game Theory for Networks, Part II. IEEE Journal on Selected Areas in Communications, 2017, 35, 529-533.	9.7	1
182	Inter-Operator Resource Management for Millimeter Wave Multi-Hop Backhaul Networks. IEEE Transactions on Wireless Communications, 2017, 16, 5258-5272.	6.1	47
183	Joint Millimeter Wave and Microwave Resources Allocation in Cellular Networks With Dual-Mode Base Stations. IEEE Transactions on Wireless Communications, 2017, 16, 4802-4816.	6.1	86
184	Toward Interconnected Virtual Reality: Opportunities, Challenges, and Enablers. , 2017, 55, 110-117.		399
185	Guest Editorial Game Theory for Networks, Part I. IEEE Journal on Selected Areas in Communications, 2017, 35, 245-248.	9.7	0
186	A New Step Toward Evidence of In Vivo Perineural Dexamethasone Safety. Regional Anesthesia and Pain Medicine, 2017, 43, 1.	1.1	13
187	Multi-Operator Spectrum Sharing for Small Cell Networks: A Matching Game Perspective. IEEE Transactions on Wireless Communications, 2017, 16, 3761-3774.	6.1	40
188	Online Ski Rental for ON/OFF Scheduling of Energy Harvesting Base Stations. IEEE Transactions on Wireless Communications, 2017, 16, 2976-2990.	6.1	28
189	Dynamic Clustering and User Association in Wireless Small-Cell Networks With Social Considerations. IEEE Transactions on Vehicular Technology, 2017, 66, 6553-6568.	3.9	26
190	Wireless Communication Using Unmanned Aerial Vehicles (UAVs): Optimal Transport Theory for Hover Time Optimization. IEEE Transactions on Wireless Communications, 2017, 16, 8052-8066.	6.1	261
191	Delay-sensitive resource allocation for relay-aided M2M communication over LTE-advanced networks. , 2017, , .		9
192	Mobile Unmanned Aerial Vehicles (UAVs) for Energy-Efficient Internet of Things Communications. IEEE Transactions on Wireless Communications, 2017, 16, 7574-7589.	6.1	765
193	Vehicle clustering for improving enhanced LTE-V2X network performance. , 2017, , .		35
194	Performance evaluation of adaptive beamforming in 5G-V2X networks. , 2017, , .		10
195	Proactive edge computing in latency-constrained fog networks. , 2017, , .		95
196	Towards low-latency and ultra-reliable vehicle-to-vehicle communication. , 2017, , .		50
197	An online secretary framework for fog network formation with minimal latency. , 2017, , .		50
198	Learning-Based Small Cell Traffic Balancing Over Licensed and Unlicensed Bands. IEEE Wireless Communications Letters, 2017, 6, 694-697.	3.2	5

#	Article	IF	Citations
199	Resource optimization and power allocation in in-band full duplex-enabled non-orthogonal multiple access networks. IEEE Journal on Selected Areas in Communications, 2017, 35, 2860-2873.	9.7	57
200	Millimeter-Wave V2V Communications: Distributed Association and Beam Alignment. IEEE Journal on Selected Areas in Communications, 2017, 35, 2148-2162.	9.7	130
201	Joint Load Balancing and Interference Mitigation in 5G Heterogeneous Networks. IEEE Transactions on Wireless Communications, 2017, 16, 6032-6046.	6.1	62
202	An Oblivious Game-Theoretic Approach for Wireless Scheduling in V2V Communications. , 2017, , .		1
203	Mobility Management for Heterogeneous Networks: Leveraging Millimeter Wave for Seamless Handover. , 2017, , .		10
204	A Novel Caching Policy with Content Popularity Prediction and User Preference Learning in Fog-RAN. , 2017, , .		24
205	Heterogeneous Ultra-Dense Networks: Part 1. , 2017, 55, 68-69.		5
206	Ultra-dense edge caching under spatio-temporal demand and network dynamics. , 2017, , .		22
207	Performance Analysis of Integrated Sub-6 GHz-Millimeter Wave Wireless Local Area Networks. , 2017, , .		11
208	Network Formation Game for Multi-Hop Wearable Communications over Millimeter Wave Frequencies. , 2017, , .		3
209	Delay Analysis for Wireless D2D Caching with Inter-Cluster Cooperation. , 2017, , .		11
210	Contract-Based Cache Partitioning and Pricing Mechanism in Wireless Network Slicing. , 2017, , .		8
211	Performance Optimization for UAV-Enabled Wireless Communications under Flight Time Constraints. , 2017, , .		22
212	Latency and Reliability-Aware Task Offloading and Resource Allocation for Mobile Edge Computing. , 2017, , .		142
213	System level analysis of multi-operator small cell network at 10 GHz. , 2017, , .		0
214	Beyond WYSIWYG: Sharing contextual sensing data through mmWave V2V communications. , 2017, , .		13
215	Online optimization for low-latency computational caching in Fog networks. , 2017, , .		15
216	CBRS Spectrum Sharing between LTE-U and WiFi: A Multiarmed Bandit Approach. Mobile Information Systems, 2016, 2016, 1-12.	0.4	16

#	Article	IF	Citations
217	User-Centric Mobility Management in Ultra-Dense Cellular Networks under Spatio-Temporal Dynamics. , 2016, , .		40
218	Fronthaul-Aware Software-Defined Joint Resource Allocation and User Scheduling for 5G Networks. , 2016, , .		9
219	On the delay of geographical caching methods in two-tiered heterogeneous networks. , 2016, , .		17
220	Online Channel Allocation for Full-Duplex Device-to-Device Communications. , 2016, , .		5
221	Dynamic Proximity-Aware Resource Allocation in Vehicle-to-Vehicle (V2V) Communications. , 2016, , .		59
222	Spatio-Temporal Network Dynamics Framework for Energy-Efficient Ultra-Dense Cellular Networks. , 2016, , .		13
223	Regret Based Learning for UAV Assisted LTE-U/WiFi Public Safety Networks. , 2016, , .		54
224	Mobile Internet of Things: Can UAVs Provide an Energy-Efficient Mobile Architecture?. , 2016, , .		184
225	Downlink Cell Association and Load Balancing for Joint Millimeter Wave-Microwave Cellular Networks. , 2016, , .		17
226	Quantum Game Theory for Beam Alignment in Millimeter Wave Device-to-Device Communications. , 2016, , .		6
227	Caching in Wireless Small Cell Networks: A Storage-Bandwidth Tradeoff. IEEE Communications Letters, 2016, 20, 1175-1178.	2.5	72
228	UAV-Assisted Heterogeneous Networks for Capacity Enhancement. IEEE Communications Letters, 2016, 20, 1207-1210.	2.5	251
229	Energy-Efficient Power Allocation in OFDMA D2D Communication by Multiobjective Optimization. IEEE Wireless Communications Letters, 2016, 5, 668-671.	3.2	30
230	Enhancing software-defined RAN with collaborative caching and scalable video coding. , 2016, , .		33
231	Joint admission control and content caching policy for energy harvesting access points. , 2016, , .		11
232	Multi-operator spectrum sharing using matching game in small cells network. , 2016, , .		5
233	Sum Secrecy Rate Maximization for Relay-Aided Multiple-Source Multiple-Destination Networks. IEEE Transactions on Vehicular Technology, 2016, , 1-1.	3.9	10
234	Big data caching for networking: moving from cloud to edge. , 2016, 54, 36-42.		267

#	Article	IF	Citations
235	Online ski rental for scheduling self-powered, energy harvesting small base stations. , 2016, , .		15
236	Multi-armed bandit for LTE-U and WiFi coexistence in unlicensed bands. , 2016, , .		25
237	Edge caching for coverage and capacity-aided heterogeneous networks. , 2016, , .		4
238	Context-aware scheduling of joint millimeter wave and microwave resources for dual-mode base stations. , 2016, , .		20
239	Optimal transport theory for power-efficient deployment of unmanned aerial vehicles. , 2016, , .		194
240	Efficient Deployment of Multiple Unmanned Aerial Vehicles for Optimal Wireless Coverage. IEEE Communications Letters, 2016, 20, 1647-1650.	2.5	798
241	Wireless communications, networking, and positioning with unmanned aerial vehicles [Guest Editorial]. , 2016, 54, 24-25.		11
242	Joint Optimization for Optimal Power Allocation in OFDMA Femtocell Networks. IEEE Communications Letters, 2016, 20, 133-136.	2.5	31
243	Ultra Dense Small Cell Networks: Turning Density Into Energy Efficiency. IEEE Journal on Selected Areas in Communications, 2016, 34, 1267-1280.	9.7	139
244	Unmanned Aerial Vehicle With Underlaid Device-to-Device Communications: Performance and Tradeoffs. IEEE Transactions on Wireless Communications, 2016, 15, 3949-3963.	6.1	958
245	Dynamic Clustering and on/off Strategies for Wireless Small Cell Networks. IEEE Transactions on Wireless Communications, 2016, 15, 2164-2178.	6.1	54
246	Leveraging Big Data Analytics for Cache-Enabled Wireless Networks. , 2015, , .		25
247	Match to cache: Joint user association and backhaul allocation in cache-aware small cell networks. , 2015, , .		37
248	Modeling and analysis of content caching in wireless small cell networks. , 2015, , .		39
249	Energy-Efficient Resource Management in Ultra Dense Small Cell Networks: A Mean-Field Approach. , 2015, , .		16
250	Femoral Nerve Block for Anterior Cruciate Ligament Reconstructionâ€"the Question Still Remains: Letter to the Editor. American Journal of Sports Medicine, 2015, 43, NP32-NP32.	1.9	1
251	Adaptive CSI and feedback estimation in LTE and beyond: a Gaussian process regression approach. Eurasip Journal on Wireless Communications and Networking, 2015, 2015, .	1.5	35
252	Power Consumption Modeling for CoMP Overlaid Neighborhood Femtocell Networks. , 2015, , .		1

#	Article	IF	Citations
253	Guest Editorial: Recent Advances in Heterogeneous Cellular Networks, Part I. IEEE Journal on Selected Areas in Communications, 2015, 33, 1021-1024.	9.7	2
254	Full duplex communications [Guest Editorial]. , 2015, 53, 90-90.		3
255	Gibbs Sampling based Spectrum Sharing for Multi-Operator Small Cell Networks. , 2015, , .		6
256	Drone Small Cells in the Clouds: Design, Deployment and Performance Analysis. , 2015, , .		440
257	A distributed ADMM approach for mobile data offloading in software defined network. , 2015, , .		4
258	Foresighted resource scheduling in software-defined radio access networks. , 2015, , .		5
259	Gaussian Process Regression for CSI and feedback estimation in LTE. , 2015, , .		3
260	Big data meets telcos: A proactive caching perspective. Journal of Communications and Networks, 2015, 17, 549-557.	1.8	137
261	Matching theory for backhaul management in small cell networks with mmWave capabilities. , 2015, , .		29
262	Special issue on big data networking-challenges and applications. Journal of Communications and Networks, 2015, 17, 545-548.	1.8	5
263	Co-Primary Multi-Operator Resource Sharing for Small Cell Networks. IEEE Transactions on Wireless Communications, 2015, 14, 3120-3130.	6.1	28
264	Learning Based Frequency- and Time-Domain Inter-Cell Interference Coordination in HetNets. IEEE Transactions on Vehicular Technology, 2015, 64, 4589-4602.	3.9	88
265	Mobility management in HetNets: a learning-based perspective. Eurasip Journal on Wireless Communications and Networking, 2015, 2015, .	1.5	31
266	Cache-enabled small cell networks: modeling and tradeoffs. Eurasip Journal on Wireless Communications and Networking, 2015, 2015, 41.	1.5	145
267	Matching theory for future wireless networks: fundamentals and applications. , 2015, 53, 52-59.		455
268	Context-Aware Small Cell Networks: How Social Metrics Improve Wireless Resource Allocation. IEEE Transactions on Wireless Communications, 2015, 14, 5927-5940.	6.1	134
269	Context-aware mobility management in HetNets: A reinforcement learning approach. , 2015, , .		24
270	A transfer learning approach for cache-enabled wireless networks. , 2015, , .		55

#	Article	IF	Citations
271	Guest Editorial Recent Advances in Heterogeneous Cellular Networks, Part II. IEEE Journal on Selected Areas in Communications, 2015, 33, 2013-2016.	9.7	0
272	Cache-enabled small cell networks: Modeling and tradeoffs. , 2014, , .		88
273	Dynamic clustering and sleep mode strategies for small cell networks. , 2014, , .		13
274	Exploring social networks for optimized user association in wireless small cell networks with device-to-device communications. , 2014, , .		3
275	Content-aware user clustering and caching in wireless small cell networks. , 2014, , .		71
276	Dynamic uplink-downlink optimization in TDD-based small cell networks. , 2014, , .		40
277	Opportunistic sleep mode strategies in wireless small cell networks. , 2014, , .		52
278	Modeling and analysis of handover failure probability in small cell networks. , 2014, , .		14
279	Multi-leader multi-follower stackelberg game among Wi-Fi, small cell and macrocell networks. , 2014, , .		13
280	In-Network Caching and Content Placement in Cooperative Small Cell Networks. , 2014, , .		36
281	Improving Macrocell-Small Cell Coexistence Through Adaptive Interference Draining. IEEE Transactions on Wireless Communications, 2014, 13, 942-955.	6.1	9
282	Social and spatial proactive caching for mobile data offloading. , 2014, , .		42
283	Matching theory for priority-based cell association in the downlink of wireless small cell networks. , 2014, , .		49
284	Cache-aware user association in backhaul-constrained small cell networks. , 2014, , .		58
285	Living on the edge: The role of proactive caching in 5G wireless networks. , 2014, 52, 82-89.		960
286	Power Consumption Modeling for CoMP Overlaid Neighborhood Femtocell Networks. , 2014, , .		1
287	Energy-Efficient Resource Management in Ultra Dense Small Cell Networks: A Mean-Field Approach. , 2014, , .		0
288	Coordinated TDD-Underlay for Self-organizing Femtocells in Two-Tier Coexistence Scenarios. Eurasip Journal on Wireless Communications and Networking, 2013, 2013, .	1.5	0

#	Article	IF	Citations
289	When cellular meets WiFi in wireless small cell networks. , 2013, 51, 44-50.		211
290	Backhaul-Aware Interference Management in the Uplink of Wireless Small Cell Networks. IEEE Transactions on Wireless Communications, 2013, 12, 5813-5825.	6.1	49
291	Dynamic Coalition Formation for Network MIMO in Small Cell Networks. IEEE Transactions on Wireless Communications, 2013, 12, 5360-5372.	6.1	38
292	Rethinking offload: How to intelligently combine WiFi and small cells?. , 2013, , .		10
293	Self-Organization in Small Cell Networks: A Reinforcement Learning Approach. IEEE Transactions on Wireless Communications, 2013, 12, 3202-3212.	6.1	162
294	Interference Alignment for Cooperative Femtocell Networks: A Game-Theoretic Approach. IEEE Transactions on Mobile Computing, 2013, 12, 2233-2246.	3.9	92
295	Matching with externalities for context-aware user-cell association in small cell networks. , 2013, , .		102
296	Statistical Analysis of Self-Organizing Networks With Biased Cell Association and Interference Avoidance. IEEE Transactions on Vehicular Technology, 2013, 62, 1950-1961.	3.9	83
297	Outage Probability and Capacity for Two-Tier Femtocell Networks by Approximating Ratio of Rayleigh and Log Normal Random Variables. , 2013, , .		3
298	Proactive user association in wireless small cell networks via collaborative filtering. , 2013, , .		6
299	Learning coarse correlated equilibria in two-tier wireless networks. , 2012, , .		29
300	On the impact of heterogeneous backhauls on coordinated multipoint transmission in femtocell networks. , 2012, , .		31
301	Performance analysis of full duplex and selective and incremental half duplex relaying schemes. , 2012, , .		28
302	Use of learning, game theory and optimization as biomimetic approaches for Self-Organization in macro-femtocell coexistence. , 2012, , .		14
303	Coordination Mechanisms for Self-Organizing Femtocells in Two-Tier Coexistence Scenarios. IEEE Transactions on Wireless Communications, 2012, 11, 2212-2223.	6.1	39
304	Coordinated beam selection in LTE-Advanced HetNets: A reinforcement learning approach. , 2012, , .		6
305	Performance of Transmit Antenna Selection Physical Layer Security Schemes. IEEE Signal Processing Letters, 2012, 19, 372-375.	2.1	206
306	On the dynamic formation of cooperative multipoint transmissions in small cell networks. , 2012, , .		10

#	Article	IF	Citations
307	Dynamic Inter-Cell Interference Coordination in HetNets: A reinforcement learning approach. , 2012, , .		48
308	Enhanced performance of heterogeneous networks through full-duplex relaying. Eurasip Journal on Wireless Communications and Networking, 2012, 2012, .	1.5	4
309	Enabling macrocell-femtocell coexistence through interference draining. , 2012, , .		2
310	Spectrum Leasing as an Incentive Towards Uplink Macrocell and Femtocell Cooperation. IEEE Journal on Selected Areas in Communications, 2012, 30, 617-630.	9.7	96
311	Game Theory and Femtocell Communications. Advances in Wireless Technologies and Telecommunication Book Series, 2012, , 200-214.	0.3	1
312	Coordination Mechanisms for Stand-Alone Femtocells in Self-Organizing Deployments. , 2011, , .		2
313	Coalition formation games for femtocell interference management: A recursive core approach. , 2011, , .		38
314	Distributed Learning Strategies for Interference Mitigation in Femtocell Networks. , 2011, , .		40
315	Decentralized Cross-Tier Interference Mitigation in Cognitive Femtocell Networks. , 2011, , .		42
316	Cooperative Interference Alignment in Femtocell Networks. , 2011, , .		34
317	Interference management in self-organized femtocell networks: The BeFEMTO approach. , 2011, , .		18
318	Hierarchical Power Allocation Games. Wireless Networks and Mobile Communications, 2011, , 227-245.	1.0	0
319	Interference avoidance via resource scheduling in TDD underlay femtocells. , 2010, , .		27
320	A stochastic association mechanism for macro-to-femtocell handover. , 2010, , .		9
321	Interference management for self-organized femtocells towards green networks. , 2010, , .		13
322	A self-organizing solution for interference avoidance in TDD underlay femtocells. , 2010, , .		10
323	On interference analysis of self-organized femtocells in indoor deployment. , 2010, , .		5
324	A Q-learning based approach to interference avoidance in self-organized femtocell networks. , 2010, , .		122

#	Article	IF	Citations
325	On spectrum sharing with underlaid femtocell networks. , 2010, , .		29
326	Learning based mechanisms for interference mitigation in self-organized femtocell networks. , 2010, , .		32
327	A Hierarchical Game Approach to Inter-Operator Spectrum Sharing. , 2009, , .		7
328	Spectrum sharing games on the interference channel. , 2009, , .		22
329	Advanced Spectrum Functionalities for Future Radio Networks. Wireless Personal Communications, 2009, 48, 175-191.	1.8	1
330	Performance evaluation of advanced spectrum functionalities for future radio networks. Wireless Communications and Mobile Computing, 2009, 9, 1532-1542.	0.8	0
331	Inter-Operator Spectrum Sharing from a Game Theoretical Perspective. Eurasip Journal on Advances in Signal Processing, 2009, 2009, .	1.0	26
332	Efficient Resource Allocation and Paving the Way Towards Highly Efficient IMT-Advanced Systems. Wireless Personal Communications, 2008, 45, 465-478.	1.8	2
333	Opportunistic power allocation for point-to-point communication in self-organized networks. , 2008, , .		0
334	Non-cooperative operators in a game-theoretic framework. , 2008, , .		9
335	Performance of MIMO Schemes with Channel Estimation Errors. , 2007, , .		4
336	On the integration of resource sharing and relaying paradigms to improve the efficiency of B3G systems. , 2007, , .		0
337	Inter-Network Resource Sharing and Improving the Efficiency of Beyond 3G Systems. , 2007, , .		5
338	Inter Base Station Resource Sharing and Improving the Overall Efficiency of B3G Systems. Vehicular Technology Conference-Fall (VTC-FALL), Proceedings, IEEE, 2007, , .	0.0	21
339	Inter-Operator Resource Sharing for 3G Systems and Beyond. , 2006, , .		12
340	Decentralized reinforcement learning techniques for interference management in heterogeneous networks. , 0, , 260-279.		0
341	Game theory and learning techniques for self-organization in small cell networks. , 0, , 242-283.		0
342	Time- and frequency-domain e-ICIC with single- and multi-flow carrier aggregation in HetNets. , 0, , 484-501.		0