Melike Erol-Kantarci

List of Publications by Year
in descending order

128 papers	4,023 citations	279798 23 h-index	189892 50 g-index
132 all docs	132 docs citations	132 times ranked	3833 citing authors

#	Article	IF	Citations
1	Actor-Critic Learning Based QoS-Aware Scheduler for Reconfigurable Wireless Networks. IEEE Transactions on Network Science and Engineering, 2022, 9, 45-54.	6.4	9
2	Multiagent Bayesian Deep Reinforcement Learning for Microgrid Energy Management Under Communication Failures. IEEE Internet of Things Journal, 2022, 9, 11685-11698.	8.7	13
3	Knowledge Transfer based Radio and Computation Resource Allocation for 5G RAN Slicing. , 2022, , .		3
4	Competitive Multi-Agent Load Balancing with Adaptive Policies in Wireless Networks. , 2022, , .		2
5	Stochastic Demand Response Management Using Mixed-Strategy Stackelberg Game. IEEE Systems Journal, 2022, 16, 4708-4718.	4.6	5
6	Guest Editorial Special Issue on Communications and Computing for Green Industrial IoT and Smart Grids. IEEE Transactions on Green Communications and Networking, 2022, 6, 3-5.	5.5	0
7	A novel Electric Vehicle Charging/Discharging Scheme with incentivization and complementary energy sources. Journal of Energy Storage, 2022, 51, 104493.	8.1	1
8	Effective Rate of RIS-aided Networks with Location and Phase Estimation Uncertainty. , 2022, , .		6
9	On the Impacts of Phase Shifting Design and Eavesdropping Uncertainty on Secrecy Metrics of RIS-aided Systems. , 2022, , .		1
10	Energy-Aware Dynamic DU Selection and NF Relocation in O-RAN Using Actor–Critic Learning. Sensors, 2022, 22, 5029.	3.8	9
11	Mobile Communications-Enabled Smart Grid Cosimulator System Design. IEEE Systems Journal, 2021, 15, 2677-2686.	4.6	0
12	Range-Free Localization With a Mobile Beacon via Motion Compensation in Underwater Sensor Networks. IEEE Wireless Communications Letters, 2021, 10, 6-10.	5.0	5
13	Transfer Reinforcement Learning for 5G New Radio mmWave Networks. IEEE Transactions on Wireless Communications, 2021, 20, 2838-2849.	9.2	24
14	Cost-Aware Dynamic Bayesian Coalitional Game for Energy Trading among Microgrids. , 2021, , .		2
15	QoS-Aware Joint Component Carrier Selection and Resource Allocation for Carrier Aggregation in 5G. , 2021, , .		13
16	Distributed Multi-Agent Learning for Service Function Chain Partial Offloading at the Edge. , 2021, , .		5
17	Carrier Aggregation With Optimized UE Power Consumption in 5G. IEEE Networking Letters, 2021, 3, 61-65.	1.9	5
18	Age of Information Aware VNF Scheduling in Industrial IoT Using Deep Reinforcement Learning. IEEE Journal on Selected Areas in Communications, 2021, 39, 2487-2500.	14.0	32

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19	On Joint Offloading and Resource Allocation: A Double Deep Q-Network Approach. IEEE Transactions on Cognitive Communications and Networking, 2021, 7, 1126-1141.	7.9	16
20	Demand Management for Optimized Energy Usage and Consumer Comfort Using Sequential Optimization. Sensors, 2021, 21, 130.	3.8	8
21	RAN Resource Slicing in 5G Using Multi-Agent Correlated Q-Learning. , 2021, , .		19
22	Satellite Image and Received Signal-based Outdoor Localization using Deep Neural Networks. , 2021, , .		1
23	Deep Reinforcement Learning Based Coalition Formation for Energy Trading in Smart Grid. , 2021, , .		4
24	Energy-Efficient and Delay-Guaranteed Joint Resource Allocation and DU Selection in O-RAN. , 2021, , .		10
25	Cost-Optimized Microgrid Coalitions Using Bayesian Reinforcement Learning. Energies, 2021, 14, 7481.	3.1	2
26	Machine Learning-Enabled Localization in 5G using LIDAR and RSS Data. , 2021, , .		3
27	Energy Blockchain for Demand Response and Distributed Energy Resource Management. , 2021, , .		5
28	QoS-Aware Load Balancing in Wireless Networks using Clipped Double Q-Learning. , 2021, , .		4
29	Guest Editorial: AI and 6G Convergence: An Energy Efficiency Perspective. IEEE Network, 2021, 35, 10-11.	6.9	0
30	Reinforcement Learning Based Energy-Efficient Component Carrier Activation-Deactivation in 5G. , 2021, , .		4
31	Dynamic CU-DU Selection for Resource Allocation in O-RAN Using Actor-Critic Learning. , 2021, , .		12
32	Low-Latency Communications for Community Resilience Microgrids: A Reinforcement Learning Approach. IEEE Transactions on Smart Grid, 2020, 11, 1091-1099.	9.0	29
33	Power Loss-Aware Transactive Microgrid Coalitions under Uncertainty. Energies, 2020, 13, 5782.	3.1	7
34	Machine Learning-based Inter-Beam Inter-Cell Interference Mitigation in mmWave. , 2020, , .		14
35	Correlated Deep Q-learning based Microgrid Energy Management. , 2020, , .		7
36	Dynamic Routing with Online Traffic Estimation for Video Streaming over Software Defined Networks. , 2020, , .		1

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37	Fusing Multi-Sensory Data for Precision Indoor Localization. , 2020, , .		0
38	Transactive Demand Response Operation at the Grid Edge using the IEEE 2030.5 Standard. Engineering, 2020, 6, 801-811.	6.7	6
39	Enterprise Security with Adaptive Ensemble Learning on Cooperation and Interaction Patterns. , 2020, , .		0
40	Staleness Control for Edge Data Analytics. Proceedings of the ACM on Measurement and Analysis of Computing Systems, 2020, 4, 1-24.	1.8	12
41	Radio Resource and Beam Management in 5G mmWave Using Clustering and Deep Reinforcement Learning. , 2020, , .		12
42	Decentralized Microgrid Energy Management: A Multi-agent Correlated Q-learning Approach. , 2020, , .		5
43	AI-Enabled Future Wireless Networks: Challenges, Opportunities, and Open Issues. IEEE Vehicular Technology Magazine, 2019, 14, 70-77.	3.4	99
44	A Survey on Recent Trends and Open Issues in Energy Efficiency of 5G. Sensors, 2019, 19, 3126.	3.8	53
45	Contextual, Behavioral, and Biometric Signatures for Continuous Authentication. IEEE Internet Computing, 2019, 23, 18-28.	3.3	8
46	High-Reliability Multi-Agent Q-Learning-Based Scheduling for D2D Microgrid Communications. IEEE Access, 2019, 7, 74412-74421.	4.2	10
47	A Fiber-Wireless Sensor Networks QoS Mechanism for Smart Grid Applications. IEEE Access, 2019, 7, 37601-37610.	4.2	22
48	Integrated Power and Device-to-Device (D2D) Communications Simulator for Future Power Systems. , 2019, , .		1
49	Reinforcement Learning-Based Joint Power and Resource Allocation for URLLC in 5G. , 2019, , .		14
50	Power Loss Minimization in Microgrids Using Bayesian Reinforcement Learning with Coalition Formation. , 2019, , .		9
51	Hierarchical Optimal Control of the Resilient Community Microgrid in Islanded Mode. , 2019, , .		4
52	AI-Enabled Radio Resource Allocation in 5G for URLLC and eMBB Users. , 2019, , .		30
53	Integrating Renewable Energy Resources Into the Smart Grid: Recent Developments in Information and Communication Technologies. IEEE Transactions on Industrial Informatics, 2018, 14, 2814-2825.	11.3	255
54	A Risk-Based Optimization Model for Electric Vehicle Infrastructure Response to Cyber Attacks. IEEE Transactions on Smart Grid, 2018, 9, 6160-6169.	9.0	54

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55	Deep Reinforcement Learning for Reducing Latency in Mission Critical Services. , 2018, , .		17
56	Learning-Based Resource Allocation for Data-Intensive and Immersive Tactile Applications. , 2018, , .		7
57	Deep Q-Learning for Low-Latency Tactile Applications: Microgrid Communications. , 2018, , .		14
58	Enhanced LBT Mechanism for LTE-Unlicensed Using Reinforcement Learning. , 2018, , .		4
59	Multimedia recommendation and transmission system based on cloud platform. Future Generation Computer Systems, 2017, 70, 94-103.	7.5	38
60	An integrated reconfigurable control and self-organizing communication framework for community resilience microgrids. Electricity Journal, 2017, 30, 27-34.	2.5	20
61	Detection of spoofed identities on smartphones via sociability metrics. , 2017, , .		4
62	Social Behaviometrics for Personalized Devices in the Internet of Things Era. IEEE Access, 2017, 5, 12199-12213.	4.2	62
63	A risk optimization model for enhanced power grid resilience against physical attacks. Electric Power Systems Research, 2017, 143, 329-338.	3.6	73
64	Guest Editorial Smart Grid Cyber-Physical Security. IEEE Transactions on Smart Grid, 2017, 8, 2409-2410.	9.0	9
65	Guest Editorial Special Section on Smart Grid and Renewable Energy Resources: Information and Communication Technologies With Industry Perspective. IEEE Transactions on Industrial Informatics, 2017, 13, 3119-3123.	11.3	18
66	MAC layer performance of the IEEE 802.15.7 visible light communication standard. Transactions on Emerging Telecommunications Technologies, 2016, 27, 662-674.	3.9	13
67	Spectrally-Efficient Cooperative Video Delivery in 5G Heterogeneous Wireless Networks. , 2016, , .		1
68	Mobile behaviometric framework for sociability assessment and identification of smartphone users. , 2016, , .		12
69	A mobile platform for sociability-based continuous identification. , 2016, , .		3
70	A heuristic approach for overlay content-caching network design in 5G wireless networks. , 2016, , .		2
71	A Survey on Cross-Layer Quality-of-Service Approaches in WSNs for Delay and Reliability-Aware Applications. IEEE Communications Surveys and Tutorials, 2016, 18, 525-552.	39.4	85
72	Cyber Attack Protection for a Resilient Electric Vehicle Infrastructure. , 2015, , .		15

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73	Cache-at-relay: energy-efficient content placement for next-generation wireless relays. International Journal of Network Management, 2015, 25, 454-470.	2.2	8
74	Towards secure cloud-centric Internet of Biometric Things. , 2015, , .		14
75	Localization for Wireless Sensor and Actor Networks with Meandering Mobility. IEEE Transactions on Computers, 2015, 64, 1015-1028.	3.4	20
76	Anomaly detection and privacy preservation in cloud-centric Internet of Things. , 2015, , .		41
77	Content caching in small cells with optimized uplink and caching power. , 2015, , .		11
78	Delay Critical Smart Grid Applications and Adaptive QoS Provisioning. IEEE Access, 2015, 3, 1367-1378.	4.2	29
79	Uplink power optimized in-network content caching for HetNets. , 2015, , .		5
80	Self-deployment of mobile underwater acoustic sensor networks for maximized coverage and guaranteed connectivity. Ad Hoc Networks, 2015, 34, 170-183.	5.5	56
81	Energy-Efficient Information and Communication Infrastructures in the Smart Grid: A Survey on Interactions and Open Issues. IEEE Communications Surveys and Tutorials, 2015, 17, 179-197.	39.4	343
82	Radio-frequency-based Wireless Energy Transfer in LTE-A heterogenous networks. , 2014, , .		15
83	Challenges of wireless power transfer for prolonging User Equipment (UE) lifetime in wireless networks. , 2014, , .		2
84	Tuning guaranteed time slots of IEEE 802.15.4 for transformer health monitoring in the smart grid. , 2014, , .		2
85	Smart grid monitoring with service differentiation via EPON and wireless sensor network convergence. Optical Switching and Networking, 2014, 14, 53-68.	2.0	17
86	Delay-Aware Medium Access Schemes for WSN-Based Partial Discharge Measurement. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 3045-3057.	4.7	16
87	Overlay energy circle formation for cloud data centers with renewable energy futures contracts. , 2014, , .		4
88	Priority- and Delay-Aware Medium Access for Wireless Sensor Networks in the Smart Grid. IEEE Systems Journal, 2014, 8, 608-618.	4.6	54
89	A four-way-handshake protocol for energy forwarding networks in the smart grid. Ad Hoc Networks, 2014, 22, 83-92.	5.5	5
90	A delay mitigation scheme for WSN-based smart grid substation monitoring. , 2013, , .		15

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91	Quality-of-service-aware fiber wireless sensor network gateway design for the smart grid. , 2013, , .		13
92	A traffic adaptive inter-cluster head delay control scheme in WSNs. , 2013, , .		4
93	A Reliable IEEE 802.15.4 Model for Cyber Physical Power Grid Monitoring Systems. IEEE Transactions on Emerging Topics in Computing, 2013, 1, 258-272.	4.6	24
94	Energy routing in the smart grid for Delay-Tolerant Loads and Mobile Energy Buffers. , 2013, , .		3
95	Smart grid forensic science: applications, challenges, and open issues. , 2013, 51, 68-74.		65
96	Smart Grid Communications: Opportunities and Challenges. , 2013, , 631-663.		14
97	A Survey of Sensor Web Services for the Smart Grid. Journal of Sensor and Actuator Networks, 2013, 2, 98-108.	3.9	12
98	An adaptive QoS scheme for WSN-based smart grid monitoring. , 2013, , .		16
99	QoS-aware inter-cluster head scheduling in WSNs for high data rate smart grid applications. , 2013, , .		8
100	Time slot allocation in WSNs for differentiated smart grid traffic. , 2013, , .		5
101	Suresense: sustainable wireless rechargeable sensor networks for the smart grid. IEEE Wireless Communications, 2012, 19, 30-36.	9.0	116
102	Fairness in delay-aware cross layer data transmission scheme for wireless sensor networks. , 2012, , .		10
103	A low latency data transmission scheme for smart grid condition monitoring applications. , 2012, , .		13
104	DRIFT: Differentiated RF Power Transmission for Wireless Sensor Network deployment in the smart grid. , 2012, , .		16
105	Low-latency smart grid asset monitoring for load control of energy-efficient buildings. , 2012, , .		1
106	Mission-aware placement of RF-based power transmitters in wireless sensor networks. , 2012, , .		24
107	Quality of service in Plug-in Electric Vehicle charging infrastructure. , 2012, , .		24
108	Supply and load management for the smart distribution grid using wireless networks. , 2012, , .		4

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109	Management of PHEV batteries in the smart grid: Towards a cyber-physical power infrastructure. , 2011, , .		32
110	Design of a delay-sensitive WSN for wind generation monitoring in the smart grid. , 2011, , .		17
111	Analysis of Plug-in Hybrid Electrical Vehicle admission control in the smart grid. , 2011, , .		15
112	Wireless Sensor Networks for smart grid applications. , 2011, , .		39
113	Communication-based Plug-In Hybrid Electrical Vehicle load management in the smart grid. , 2011, , .		31
114	A Survey of Architectures and Localization Techniques for Underwater Acoustic Sensor Networks. IEEE Communications Surveys and Tutorials, 2011, 13, 487-502.	39.4	359
115	Reliable overlay topology design for the smart microgrid network. IEEE Network, 2011, 25, 38-43.	6.9	99
116	Cost-Aware Smart Microgrid Network design for a sustainable smart grid. , 2011, , .		17
117	Wireless Sensor Networks for Cost-Efficient Residential Energy Management in the Smart Grid. IEEE Transactions on Smart Grid, 2011, 2, 314-325.	9.0	521
118	Periodicity-Based Anomalies in Self-Similar Network Traffic Flow Measurements. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 1358-1366.	4.7	24
119	Sensor network web services for Demand-Side Energy Management applications in the smart grid. , 2011, , .		20
120	Wireless multimedia sensor and actor networks for the next generation power grid. Ad Hoc Networks, 2011, 9, 542-551.	5.5	151
121	Performance evaluation of distributed localization techniques for mobile underwater acoustic sensor networks. Ad Hoc Networks, 2011, 9, 61-72.	5.5	40
122	Management of PHEV charging from the smart grid using sensor web services. , 2011, , .		9
123	Wireless Sensor Networks for domestic energy management in smart grids. , 2010, , .		37
124	Localization techniques for underwater acoustic sensor networks. , 2010, 48, 152-158.		103
125	TOU-Aware Energy Management and Wireless Sensor Networks for Reducing Peak Load in Smart Grids. , 2010, , .		59
126	Using wireless sensor networks for energy-aware homes in smart grids. , 2010, , .		41

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127	Prediction-based charging of PHEVs from the smart grid with dynamic pricing. , 2010, , .		67
128	The impact of smart grid residential energy management schemes on the carbon footprint of the household electricity consumption. , 2010, , .		16