

# Melike Erol-Kantarci

## List of Publications by Year in descending order

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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	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
2	A Survey of Architectures and Localization Techniques for Underwater Acoustic Sensor Networks. IEEE Communications Surveys and Tutorials, 2011, 13, 487-502.	39.4	359
3	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
4	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
5	Wireless multimedia sensor and actor networks for the next generation power grid. Ad Hoc Networks, 2011, 9, 542-551.	5.5	151
6	Suresense: sustainable wireless rechargeable sensor networks for the smart grid. IEEE Wireless Communications, 2012, 19, 30-36.	9.0	116
7	Localization techniques for underwater acoustic sensor networks. , 2010, 48, 152-158.		103
8	Reliable overlay topology design for the smart microgrid network. IEEE Network, 2011, 25, 38-43.	6.9	99
9	AI-Enabled Future Wireless Networks: Challenges, Opportunities, and Open Issues. IEEE Vehicular Technology Magazine, 2019, 14, 70-77.	3.4	99
10	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
11	A risk optimization model for enhanced power grid resilience against physical attacks. Electric Power Systems Research, 2017, 143, 329-338.	3.6	73
12	Prediction-based charging of PHEVs from the smart grid with dynamic pricing. , 2010, , .		67
13	Smart grid forensic science: applications, challenges, and open issues. , 2013, 51, 68-74.		65
14	Social Behaviometrics for Personalized Devices in the Internet of Things Era. IEEE Access, 2017, 5, 12199-12213.	4.2	62
15	TOU-Aware Energy Management and Wireless Sensor Networks for Reducing Peak Load in Smart Grids. , 2010, , .		59
16	Self-deployment of mobile underwater acoustic sensor networks for maximized coverage and guaranteed connectivity. Ad Hoc Networks, 2015, 34, 170-183.	5.5	56
17	Priority- and Delay-Aware Medium Access for Wireless Sensor Networks in the Smart Grid. IEEE Systems Journal, 2014, 8, 608-618.	4.6	54
18	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

#	ARTICLE	IF	CITATIONS
19	A Survey on Recent Trends and Open Issues in Energy Efficiency of 5G. Sensors, 2019, 19, 3126.	3.8	53
20	Using wireless sensor networks for energy-aware homes in smart grids. , 2010, , .		41
21	Anomaly detection and privacy preservation in cloud-centric Internet of Things. , 2015, , .		41
22	Performance evaluation of distributed localization techniques for mobile underwater acoustic sensor networks. Ad Hoc Networks, 2011, 9, 61-72.	5.5	40
23	Wireless Sensor Networks for smart grid applications. , 2011, , .		39
24	Multimedia recommendation and transmission system based on cloud platform. Future Generation Computer Systems, 2017, 70, 94-103.	7.5	38
25	Wireless Sensor Networks for domestic energy management in smart grids. , 2010, , .		37
26	Management of PHEV batteries in the smart grid: Towards a cyber-physical power infrastructure. , 2011, , .		32
27	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
28	Communication-based Plug-In Hybrid Electrical Vehicle load management in the smart grid. , 2011, , .		31
29	AI-Enabled Radio Resource Allocation in 5G for URLLC and eMBB Users. , 2019, , .		30
30	Delay Critical Smart Grid Applications and Adaptive QoS Provisioning. IEEE Access, 2015, 3, 1367-1378.	4.2	29
31	Low-Latency Communications for Community Resilience Microgrids: A Reinforcement Learning Approach. IEEE Transactions on Smart Grid, 2020, 11, 1091-1099.	9.0	29
32	Periodicity-Based Anomalies in Self-Similar Network Traffic Flow Measurements. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 1358-1366.	4.7	24
33	Mission-aware placement of RF-based power transmitters in wireless sensor networks. , 2012, , .		24
34	Quality of service in Plug-in Electric Vehicle charging infrastructure. , 2012, , .		24
35	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
36	Transfer Reinforcement Learning for 5G New Radio mmWave Networks. IEEE Transactions on Wireless Communications, 2021, 20, 2838-2849.	9.2	24

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37	A Fiber-Wireless Sensor Networks QoS Mechanism for Smart Grid Applications. IEEE Access, 2019, 7, 37601-37610.	4.2	22
38	Sensor network web services for Demand-Side Energy Management applications in the smart grid. , 2011, , .		20
39	Localization for Wireless Sensor and Actor Networks with Meandering Mobility. IEEE Transactions on Computers, 2015, 64, 1015-1028.	3.4	20
40	An integrated reconfigurable control and self-organizing communication framework for community resilience microgrids. Electricity Journal, 2017, 30, 27-34.	2.5	20
41	RAN Resource Slicing in 5G Using Multi-Agent Correlated Q-Learning. , 2021, , .		19
42	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
43	Design of a delay-sensitive WSN for wind generation monitoring in the smart grid. , 2011, , .		17
44	Cost-Aware Smart Microgrid Network design for a sustainable smart grid. , 2011, , .		17
45	Smart grid monitoring with service differentiation via EPON and wireless sensor network convergence. Optical Switching and Networking, 2014, 14, 53-68.	2.0	17
46	Deep Reinforcement Learning for Reducing Latency in Mission Critical Services. , 2018, , .		17
47	The impact of smart grid residential energy management schemes on the carbon footprint of the household electricity consumption. , 2010, , .		16
48	DRIFT: Differentiated RF Power Transmission for Wireless Sensor Network deployment in the smart grid. , 2012, , .		16
49	An adaptive QoS scheme for WSN-based smart grid monitoring. , 2013, , .		16
50	Delay-Aware Medium Access Schemes for WSN-Based Partial Discharge Measurement. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 3045-3057.	4.7	16
51	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
52	Analysis of Plug-in Hybrid Electrical Vehicle admission control in the smart grid. , 2011, , .		15
53	A delay mitigation scheme for WSN-based smart grid substation monitoring. , 2013, , .		15
54	Radio-frequency-based Wireless Energy Transfer in LTE-A heterogeneous networks. , 2014, , .		15

#	ARTICLE	IF	CITATIONS
55	Cyber Attack Protection for a Resilient Electric Vehicle Infrastructure. , 2015, , .		15
56	Smart Grid Communications: Opportunities and Challenges. , 2013, , 631-663.		14
57	Towards secure cloud-centric Internet of Biometric Things. , 2015, , .		14
58	Deep Q-Learning for Low-Latency Tactile Applications: Microgrid Communications. , 2018, , .		14
59	Reinforcement Learning-Based Joint Power and Resource Allocation for URLLC in 5G. , 2019, , .		14
60	Machine Learning-based Inter-Beam Inter-Cell Interference Mitigation in mmWave. , 2020, , .		14
61	A low latency data transmission scheme for smart grid condition monitoring applications. , 2012, , .		13
62	Quality-of-service-aware fiber wireless sensor network gateway design for the smart grid. , 2013, , .		13
63	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
64	QoS-Aware Joint Component Carrier Selection and Resource Allocation for Carrier Aggregation in 5G. , 2021, , .		13
65	Multiagent Bayesian Deep Reinforcement Learning for Microgrid Energy Management Under Communication Failures. IEEE Internet of Things Journal, 2022, 9, 11685-11698.	8.7	13
66	A Survey of Sensor Web Services for the Smart Grid. Journal of Sensor and Actuator Networks, 2013, 2, 98-108.	3.9	12
67	Mobile behaviometric framework for sociability assessment and identification of smartphone users. , 2016, , .		12
68	Staleness Control for Edge Data Analytics. Proceedings of the ACM on Measurement and Analysis of Computing Systems, 2020, 4, 1-24.	1.8	12
69	Radio Resource and Beam Management in 5G mmWave Using Clustering and Deep Reinforcement Learning. , 2020, , .		12
70	Dynamic CU-DU Selection for Resource Allocation in O-RAN Using Actor-Critic Learning. , 2021, , .		12
71	Content caching in small cells with optimized uplink and caching power. , 2015, , .		11
72	Fairness in delay-aware cross layer data transmission scheme for wireless sensor networks. , 2012, , .		10

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73	High-Reliability Multi-Agent Q-Learning-Based Scheduling for D2D Microgrid Communications. IEEE Access, 2019, 7, 74412-74421.	4.2	10
74	Energy-Efficient and Delay-Guaranteed Joint Resource Allocation and DU Selection in O-RAN. , 2021, , .		10
75	Management of PHEV charging from the smart grid using sensor web services. , 2011, , .		9
76	Guest Editorial Smart Grid Cyber-Physical Security. IEEE Transactions on Smart Grid, 2017, 8, 2409-2410.	9.0	9
77	Power Loss Minimization in Microgrids Using Bayesian Reinforcement Learning with Coalition Formation. , 2019, , .		9
78	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
79	Energy-Aware Dynamic DU Selection and NF Relocation in O-RAN Using Actor-Critic Learning. Sensors, 2022, 22, 5029.	3.8	9
80	QoS-aware inter-cluster head scheduling in WSNs for high data rate smart grid applications. , 2013, , .		8
81	Cache-at-relay: energy-efficient content placement for next-generation wireless relays. International Journal of Network Management, 2015, 25, 454-470.	2.2	8
82	Contextual, Behavioral, and Biometric Signatures for Continuous Authentication. IEEE Internet Computing, 2019, 23, 18-28.	3.3	8
83	Demand Management for Optimized Energy Usage and Consumer Comfort Using Sequential Optimization. Sensors, 2021, 21, 130.	3.8	8
84	Learning-Based Resource Allocation for Data-Intensive and Immersive Tactile Applications. , 2018, , .		7
85	Power Loss-Aware Transactive Microgrid Coalitions under Uncertainty. Energies, 2020, 13, 5782.	3.1	7
86	Correlated Deep Q-learning based Microgrid Energy Management. , 2020, , .		7
87	Transactive Demand Response Operation at the Grid Edge using the IEEE 2030.5 Standard. Engineering, 2020, 6, 801-811.	6.7	6
88	Effective Rate of RIS-aided Networks with Location and Phase Estimation Uncertainty. , 2022, , .		6
89	Time slot allocation in WSNs for differentiated smart grid traffic. , 2013, , .		5
90	A four-way-handshake protocol for energy forwarding networks in the smart grid. Ad Hoc Networks, 2014, 22, 83-92.	5.5	5

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91	Uplink power optimized in-network content caching for HetNets. , 2015, , .		5
92	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
93	Distributed Multi-Agent Learning for Service Function Chain Partial Offloading at the Edge. , 2021, , .		5
94	Carrier Aggregation With Optimized UE Power Consumption in 5G. IEEE Networking Letters, 2021, 3, 61-65.	1.9	5
95	Decentralized Microgrid Energy Management: A Multi-agent Correlated Q-learning Approach. , 2020, , .		5
96	Energy Blockchain for Demand Response and Distributed Energy Resource Management. , 2021, , .		5
97	Stochastic Demand Response Management Using Mixed-Strategy Stackelberg Game. IEEE Systems Journal, 2022, 16, 4708-4718.	4.6	5
98	Supply and load management for the smart distribution grid using wireless networks. , 2012, , .		4
99	A traffic adaptive inter-cluster head delay control scheme in WSNs. , 2013, , .		4
100	Overlay energy circle formation for cloud data centers with renewable energy futures contracts. , 2014, , .		4
101	Detection of spoofed identities on smartphones via sociability metrics. , 2017, , .		4
102	Enhanced LBT Mechanism for LTE-Unlicensed Using Reinforcement Learning. , 2018, , .		4
103	Hierarchical Optimal Control of the Resilient Community Microgrid in Islanded Mode. , 2019, , .		4
104	Deep Reinforcement Learning Based Coalition Formation for Energy Trading in Smart Grid. , 2021, , .		4
105	QoS-Aware Load Balancing in Wireless Networks using Clipped Double Q-Learning. , 2021, , .		4
106	Reinforcement Learning Based Energy-Efficient Component Carrier Activation-Deactivation in 5G. , 2021, , .		4
107	Energy routing in the smart grid for Delay-Tolerant Loads and Mobile Energy Buffers. , 2013, , .		3
108	A mobile platform for sociability-based continuous identification. , 2016, , .		3

#	ARTICLE	IF	CITATIONS
109	Machine Learning-Enabled Localization in 5G using LIDAR and RSS Data. , 2021, , .		3
110	Knowledge Transfer based Radio and Computation Resource Allocation for 5G RAN Slicing. , 2022, , .		3
111	Challenges of wireless power transfer for prolonging User Equipment (UE) lifetime in wireless networks. , 2014, , .		2
112	Tuning guaranteed time slots of IEEE 802.15.4 for transformer health monitoring in the smart grid. , 2014, , .		2
113	A heuristic approach for overlay content-caching network design in 5G wireless networks. , 2016, , .		2
114	Cost-Aware Dynamic Bayesian Coalitional Game for Energy Trading among Microgrids. , 2021, , .		2
115	Cost-Optimized Microgrid Coalitions Using Bayesian Reinforcement Learning. Energies, 2021, 14, 7481.	3.1	2
116	Competitive Multi-Agent Load Balancing with Adaptive Policies in Wireless Networks. , 2022, , .		2
117	Low-latency smart grid asset monitoring for load control of energy-efficient buildings. , 2012, , .		1
118	Spectrally-Efficient Cooperative Video Delivery in 5G Heterogeneous Wireless Networks. , 2016, , .		1
119	Integrated Power and Device-to-Device (D2D) Communications Simulator for Future Power Systems. , 2019, , .		1
120	Dynamic Routing with Online Traffic Estimation for Video Streaming over Software Defined Networks. , 2020, , .		1
121	Satellite Image and Received Signal-based Outdoor Localization using Deep Neural Networks. , 2021, , .		1
122	A novel Electric Vehicle Charging/Discharging Scheme with incentivization and complementary energy sources. Journal of Energy Storage, 2022, 51, 104493.	8.1	1
123	On the Impacts of Phase Shifting Design and Eavesdropping Uncertainty on Secrecy Metrics of RIS-aided Systems. , 2022, , .		1
124	Fusing Multi-Sensory Data for Precision Indoor Localization. , 2020, , .		0
125	Enterprise Security with Adaptive Ensemble Learning on Cooperation and Interaction Patterns. , 2020, , .		0
126	Mobile Communications-Enabled Smart Grid Cosimulator System Design. IEEE Systems Journal, 2021, 15, 2677-2686.	4.6	0



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127	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
128	Guest Editorial: AI and 6G Convergence: An Energy Efficiency Perspective. IEEE Network, 2021, 35, 10-11.	6.9	0