

Burak Kantarci

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

146
papers

2,917
citations

28
h-index

48
g-index

187
ext. papers

3,772
ext. citations

5.9
avg, IF

6.09
L-index

#	Paper	IF	Citations
146	Health Monitoring and Management Using Internet-of-Things (IoT) Sensing with Cloud-Based Processing: Opportunities and Challenges 2015 ,		338
145	A Survey on Mobile Crowdsensing Systems: Challenges, Solutions, and Opportunities. <i>IEEE Communications Surveys and Tutorials</i> , 2019 , 21, 2419-2465	37.1	163
144	Trustworthy Sensing for Public Safety in Cloud-Centric Internet of Things. <i>IEEE Internet of Things Journal</i> , 2014 , 1, 360-368	10.7	146
143	On the Feasibility of Deep Learning in Sensor Network Intrusion Detection. <i>IEEE Networking Letters</i> , 2019 , 1, 68-71	2.8	126
142	Quantifying User Reputation Scores, Data Trustworthiness, and User Incentives in Mobile Crowd-Sensing. <i>IEEE Access</i> , 2017 , 5, 1382-1397	3.5	101
141	A survey on cybersecurity, data privacy, and policy issues in cyber-physical system deployments in smart cities. <i>Sustainable Cities and Society</i> , 2019 , 50, 101660	10.1	82
140	Anchor-Assisted and Vote-Based Trustworthiness Assurance in Smart City Crowdsensing. <i>IEEE Access</i> , 2016 , 4, 529-541	3.5	82
139	Reliable overlay topology design for the smart microgrid network. <i>IEEE Network</i> , 2011 , 25, 38-43	11.4	71
138	. <i>IEEE Sensors Journal</i> , 2017 , 17, 7649-7658	4	68
137	CrowdSenSim: a Simulation Platform for Mobile Crowdsensing in Realistic Urban Environments. <i>IEEE Access</i> , 2017 , 5, 3490-3503	3.5	64
136	A continuous diversified vehicular cloud service availability framework for smart cities. <i>Computer Networks</i> , 2018 , 145, 207-218	5.4	63
135	A Local-Optimization Emergency Scheduling Scheme With Self-Recovery for a Smart Grid. <i>IEEE Transactions on Industrial Informatics</i> , 2017 , 13, 3195-3205	11.9	53
134	Sensing, communication and security planes: A new challenge for a smart city system design. <i>Computer Networks</i> , 2018 , 144, 163-200	5.4	51
133	Social Behaviometrics for Personalized Devices in the Internet of Things Era. <i>IEEE Access</i> , 2017 , 5, 12199-12213	3.5	49
132	Detection of Known and Unknown Intrusive Sensor Behavior in Critical Applications 2017 , 1, 1-4		44
131	Multiagent/multiobjective interaction game system for service provisioning in vehicular cloud. <i>IEEE Access</i> , 2016 , 4, 3153-3168	3.5	43
130	2018 , 56, 78-86		41

129	Intelligent Gaming for Mobile Crowd-Sensing Participants to Acquire Trustworthy Big Data in the Internet of Things. <i>IEEE Access</i> , 2017 , 5, 22209-22223	3.5	41
128	Machine Learning in Cardiac Health Monitoring and Decision Support. <i>Computer</i> , 2016 , 49, 38-48	1.6	39
127	Energy efficiency in the extended-reach fiber-wireless access networks. <i>IEEE Network</i> , 2012 , 26, 28-35	11.4	37
126	The Smart Citizen Factor in Trustworthy Smart City Crowdsensing. <i>IT Professional</i> , 2016 , 18, 26-33	1.9	34
125	Empowering Reinforcement Learning on Big Sensed Data for Intrusion Detection 2019 ,		34
124	Anomaly detection and privacy preservation in cloud-centric Internet of Things 2015 ,		32
123	Virtual machine migration and management for vehicular clouds. <i>Vehicular Communications</i> , 2016 , 4, 47-56	5.7	31
122	Big Sensed Data Meets Deep Learning for Smarter Health Care in Smart Cities. <i>Journal of Sensor and Actuator Networks</i> , 2017 , 6, 26	3.8	31
121	Sociability-Driven Framework for Data Acquisition in Mobile Crowdsensing Over Fog Computing Platforms for Smart Cities. <i>IEEE Transactions on Sustainable Computing</i> , 2017 , 2, 345-358	3.5	30
120	Federated Learning in Smart City Sensing: Challenges and Opportunities. <i>Sensors</i> , 2020 , 20,	3.8	30
119	Multimedia recommendation and transmission system based on cloud platform. <i>Future Generation Computer Systems</i> , 2017 , 70, 94-103	7.5	28
118	Smart City System Design. <i>ACM Computing Surveys</i> , 2019 , 52, 1-38	13.4	27
117	Machine learning-driven intrusion detection for Contiki-NG-based IoT networks exposed to NSL-KDD dataset 2020 ,		26
116	Adaptively Supervised and Intrusion-Aware Data Aggregation for Wireless Sensor Clusters in Critical Infrastructures 2018 ,		26
115	Designing an Energy-Efficient Cloud Network [Invited]. <i>Journal of Optical Communications and Networking</i> , 2012 , 4, B101	4.1	25
114	SONATA. <i>International Journal of Distributed Systems and Technologies</i> , 2016 , 7, 59-78	0.3	25
113	Artificial Intelligence-Empowered Mobilization of Assessments in COVID-19-like Pandemics: A Case Study for Early Flattening of the Curve. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	23
112	Inter-and-intra data center VM-placement for energy-efficient large-Scale cloud systems 2012 ,		22

111	Queuing Algorithm for Effective Target Coverage in Mobile Crowd Sensing. <i>IEEE Internet of Things Journal</i> , 2017 , 4, 1046-1055	10.7	19
110	Hierarchical trust-based black-hole detection in WSN-based smart grid monitoring 2017 ,		19
109	Mobility-aware trustworthy crowdsourcing in cloud-centric Internet of Things 2014 ,		19
108	Energy-Efficient Cloud Services over Wavelength-Routed Optical Transport Networks 2011 ,		19
107	Availability and Cost-Constrained Long-Reach Passive Optical Network Planning. <i>IEEE Transactions on Reliability</i> , 2012 , 61, 113-124	4.6	18
106	Optimal Reconfiguration of the Cloud Network for Maximum Energy Savings 2012 ,		18
105	Game-Theoretic Recruitment of Sensing Service Providers for Trustworthy Cloud-Centric Internet-of-Things (IoT) Applications 2016 ,		18
104	Dynamic Virtual Machine Migration in a vehicular cloud 2014 ,		17
103	Sociability-Driven User Recruitment in Mobile Crowdsensing Internet of Things Platforms 2016 ,		17
102	SOBER-MCS: Sociability-Oriented and Battery Efficient Recruitment for Mobile Crowd-Sensing. <i>Sensors</i> , 2018 , 18,	3.8	16
101	Mitigating False Negative intruder decisions in WSN-based Smart Grid monitoring 2017 ,		16
100	Smart grid monitoring with service differentiation via EPON and wireless sensor network convergence. <i>Optical Switching and Networking</i> , 2014 , 14, 53-68	1.6	15
99	Cost-Aware Smart Microgrid Network design for a sustainable smart grid 2011 ,		15
98	Greening the availability design of optical WDM networks 2010 ,		15
97	Periodic GATE Optimization (PGO): A New Service Scheme for Long-Reach Passive Optical Networks. <i>IEEE Systems Journal</i> , 2010 , 4, 440-448	4.3	15
96	. <i>IEEE Transactions on Mobile Computing</i> , 2019 , 18, 1718-1730	4.6	14
95	On the impact of quality of experience (QoE) in a vehicular cloud with various providers 2014 ,		14
94	Low-Latency Communications for Community Resilience Microgrids: A Reinforcement Learning Approach. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 1091-1099	10.7	14

93	Game Theory in Mobile CrowdSensing:A Comprehensive Survey. <i>Sensors</i> , 2020 , 20,	3.8	14
92	An integrated reconfigurable control and self-organizing communication framework for community resilience microgrids. <i>Electricity Journal</i> , 2017 , 30, 27-34	2.6	13
91	Vehicular clouds: State of the art, challenges and future directions 2015 ,		13
90	Trustworthy crowdsourcing via mobile social networks 2014 ,		13
89	Performance of OBS techniques under self-similar traffic based on various burst assembly techniques. <i>Computer Communications</i> , 2007 , 30, 315-325	5.1	13
88	Fairness-Aware Game Theoretic Approach for Service Management in Vehicular Clouds 2017 ,		12
87	Bandwidth Distribution Solutions for Performance Enhancement in Long-Reach Passive Optical Networks. <i>IEEE Communications Surveys and Tutorials</i> , 2011 ,	37.1	12
86	Towards secure cloud-centric Internet of Biometric Things 2015 ,		11
85	On blockchain integration into mobile crowdsensing via smart embedded devices: A comprehensive survey. <i>Journal of Systems Architecture</i> , 2021 , 115, 102011	5.5	11
84	A Comparative Study of AI-Based Intrusion Detection Techniques in Critical Infrastructures. <i>ACM Transactions on Internet Technology</i> , 2021 , 21, 1-22	3.8	11
83	Design of energy-efficient cloud systems via network and resource virtualization. <i>International Journal of Network Management</i> , 2015 , 25, 75-94	1.8	10
82	A survey on the communication and network enablers for cloud-based services: state of the art, challenges, and opportunities. <i>Annales Des Telecommunications/Annals of Telecommunications</i> , 2018 , 73, 169-192	2	10
81	Trajectory Assisted Municipal Agent Mobility: A Sensor-Driven Smart Waste Management System. <i>Journal of Sensor and Actuator Networks</i> , 2018 , 7, 29	3.8	10
80	Reliable and fast restoration for a survivable wireless-optical broadband access network 2010 ,		10
79	Power saving clusters for energy-efficient design of fiber-wireless access networks 2010 ,		10
78	Invited Paper: AI-Based Security Design of Mobile Crowdsensing Systems: Review, Challenges and Case Studies 2019 ,		9
77	Resilient design of a cloud system over an optical backbone. <i>IEEE Network</i> , 2015 , 29, 80-87	11.4	9
76	Mobile behaviometric framework for sociability assessment and identification of smartphone users 2016 ,		9

75	Holistic design for deep learning-based discovery of tabular structures in datasheet images. <i>Engineering Applications of Artificial Intelligence</i> , 2020 , 90, 103551	7.2	8
74	MQTT-Driven Sustainable Node Discovery for Internet of Things-Fog Environments 2018 ,		8
73	The impact of time of use (ToU)-awareness in energy and opex performance of a cloud backbone 2012 ,		8
72	COVERS-UP: Collaborative Verification of Smart User Profiles for social sustainability of smart cities. <i>Sustainable Cities and Society</i> , 2018 , 38, 348-358	10.1	8
71	A probabilistic process learning approach for service composition in cloud networks 2017 ,		7
70	An Auction-Driven Multi-Objective Provisioning Framework in a Vehicular Cloud 2015 ,		7
69	Cyber-physical alternate route recommendation system for paramedics in an urban area 2015 ,		7
68	Distributed management of energy-efficient lightpaths for computational grids 2012 ,		7
67	Self Organizing Feature Map for Fake Task Attack Modelling in Mobile Crowdsensing 2019 ,		7
66	Machine Learning-based Prevention of Battery-oriented Illegitimate Task Injection in Mobile Crowdsensing 2019 ,		6
65	Contextual, Behavioral, and Biometric Signatures for Continuous Authentication. <i>IEEE Internet Computing</i> , 2019 , 23, 18-28	2.4	6
64	A Generalized Framework for Quality of Experience (QoE)-Based Provisioning in a Vehicular Cloud 2015 ,		6
63	Periodic GATE Optimization (PGO) in Long-Reach Passive Optical Networks 2010 ,		6
62	Optimization for Fault Localization in All-Optical Networks. <i>Journal of Lightwave Technology</i> , 2009 , 27, 4832-4840	4	6
61	Empowering Self-Organized Feature Maps for AI-Enabled Modeling of Fake Task Submissions to Mobile Crowdsensing Platforms. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 1334-1346	10.7	6
60	A Novel Reputation-aware Client Selection Scheme for Federated Learning within Mobile Environments 2020 ,		6
59	A Novel Ensemble Method for Advanced Intrusion Detection in Wireless Sensor Networks 2020 ,		6
58	MQTT-Driven Node Discovery for Integrated IoT-Fog Settings Revisited: The Impact of Advertiser Dynamicity 2018 ,		6

57	Fog-Driven Context-Aware Architecture for Node Discovery and Energy Saving Strategy for Internet of Things Environments. <i>IEEE Access</i> , 2019 , 7, 134173-134186	3.5	5
56	Provisioning delay effect of partaking a Trusted Third Party in a vehicular cloud 2014 ,		5
55	A reference model for crowdsourcing as a service 2015 ,		5
54	Cellular IP address provisioning in a heterogeneous wireless network. <i>International Journal of Communication Systems</i> , 2014 , 27, 2007-2021	1.7	5
53	Minimizing the provisioning delay in the cloud network: Benefits, overheads and challenges 2012 ,		5
52	Energy-efficient DBA and QoS in FiWi networks constrained to metro-access convergence 2012 ,		5
51	Towards ensuring the reliability and dependability of vehicular crowd-sensing data in GPS-less location tracking. <i>Pervasive and Mobile Computing</i> , 2020 , 68, 101248	3.5	5
50	Gesture and Sociability-based Continuous Authentication on Smart Mobile Devices 2018 ,		5
49	AI-driven autonomous vehicles as COVID-19 assessment centers: A novel crowdsensing-enabled strategy. <i>Pervasive and Mobile Computing</i> , 2021 , 75, 101426	3.5	5
48	Disaster resilience of optical networks: State of the art, challenges, and opportunities. <i>Optical Switching and Networking</i> , 2021 , 42, 100619	1.6	5
47	Selective versus Non-Selective Acquisition of Crowd-Solicited IoT Data and Its Dependability 2018 ,		4
46	Detection of spoofed identities on smartphones via sociability metrics 2017 ,		4
45	Trusted Third Party for service management in vehicular clouds 2017 ,		4
44	Resiliency versus energy sustainability in optical inter-datacenter networks. <i>Optical Switching and Networking</i> , 2017 , 23, 144-155	1.6	4
43	Towards energy-efficient hybrid Fiber-Wireless Access Networks 2011 ,		4
42	Towards cellular IP address assignment in wireless heterogeneous sensor networks 2011 ,		4
41	Bridging Predictive Analytics and Mobile Crowdsensing for Future Risk Maps of Communities Against COVID-19 2020 ,		4
40	Reliability-Driven Vehicular Crowd-Sensing: A Case Study for Localization in Public Transportation 2018 ,		4

39	Energy-efficient realistic design and planning of optical backbone with multi-granular switching 2012,		3
38	Optimization models for reliable long-reach PON deployment 2011,		3
37	Availability and cost constrained fast planning of Passive Optical Networks under various survivability policies 2010,		3
36	On SLA constraints in dynamic bandwidth allocation for long-reach passive optical networks 2010,		3
35	Optimization for minimizing fault localization time in all-optical networks 2008,		3
34	Adversarial Machine Learning: A Multi-Layer Review of the State-of-the-Art and Challenges for Wireless and Mobile Systems. <i>IEEE Communications Surveys and Tutorials</i> , 2021 , 1-1	37.1	3
33	Locally reconfigurable Self Organizing Feature Map for high impact malicious tasks submission in Mobile Crowdsensing. <i>Internet of Things (Netherlands)</i> , 2020 , 12, 100297	6.9	3
32	Artificial intelligence in deep learning algorithms for multimedia analysis. <i>Multimedia Tools and Applications</i> , 2020 , 79, 34129-34139	2.5	3
31	Deep Learning-Based Detection of Fake Task Injection in Mobile Crowdsensing 2019,		3
30	Deep Learning for Recognizing the Anatomy of Tables on Datasheets 2019,		3
29	Performance impacts of hybrid cloud storage. <i>Computing (Vienna/New York)</i> , 2017 , 99, 1207-1229	2.2	2
28	Participatory detection of identity theft on mobile social platforms 2017,		2
27	Performance optimization for fault localization in all-optical networks 2008,		2
26	Connection provisioning constrained to fault localization in all-optical networks 2008,		2
25	Deep Learning in Smart Health: Methodologies, Applications, Challenges 2020 , 23-46		2
24	. <i>IEEE Vehicular Technology Magazine</i> , 2020 , 15, 86-94	9.9	2
23	Attention-Based Event Characterization for Scarce Vehicular Sensing Data. <i>IEEE Open Journal of Vehicular Technology</i> , 2020 , 1, 317-330	5.3	2
22	Reputation-enabled Federated Learning Model Aggregation in Mobile Platforms 2021,		2

21	A mobile platform for sociability-based continuous identification 2016,		2
20	A Capacity-Aware User Recruitment Framework for Fog-Based Mobile Crowd-Sensing Platforms 2019,		2
19	Bridging Connected Vehicles with Artificial Intelligence for Smart First Responder Services 2019,		2
18	Deep Learning for the Detection of Tabular Information from Electronic Component Datasheets 2019,		2
17	On the Impact of Selective Data Acquisition in Mobile Crowd-Sensing Performance 2018,		2
16	A Feasibility Study on Sustainability-Driven Infrastructure Management in Cloud Data Centers 2018,		2
15	A tutorial on AI-powered 3D deployment of drone base stations: State of the art, applications and challenges. <i>Vehicular Communications</i> , 2022 , 100474	5-7	2
14	Optical inter-data-center network design under resilience requirements and dynamic electricity pricing 2014,		1
13	Distributed discovery services via EPC-BGP for mobile RFID 2013,		1
12	SLA-Aware Protection Switching in optical WDM networks 2010,		1
11	TableDet: An end-to-end deep learning approach for table detection and table image classification in data sheet images. <i>Neurocomputing</i> , 2022 , 468, 317-334	5-4	1
10	Participant Comfort Adaptation in Dependable Mobile Crowdsensing Services 2020,		1
9	Deep Belief Network-based Fake Task Mitigation for Mobile Crowdsensing under Data Scarcity 2020,		1
8	TabCellNet: Deep learning-based tabular cell structure detection. <i>Neurocomputing</i> , 2021 , 440, 12-23	5-4	1
7	Accuracy improvement of electrical load forecasting against new cyber-attack architectures. <i>Sustainable Cities and Society</i> , 2021 , 77, 103523	10.1	0
6	Utility-Aware Legitimacy Detection of Mobile Crowdsensing Tasks via Knowledge-Based Self Organizing Feature Map. <i>IEEE Transactions on Mobile Computing</i> , 2021 , 1-1	4.6	0
5	Big data aggregation in the case of heterogeneity: a feasibility study for digital health. <i>International Journal of Machine Learning and Cybernetics</i> , 2019 , 10, 2643-2655	3.8	0
4	Aggregation of Incentivized Learning Models in Mobile Federated Learning Environments. <i>IEEE Networking Letters</i> , 2021 , 1-1	2.8	0

- 3 . *IEEE Engineering Management Review*, **2021**, 1-1 3.6 ○
- 2 Guest Editors Introduction: Special Section on Mobile Cloud Computing. *IEEE Transactions on Cloud Computing*, **2019**, 7, 298-300 3.3
- 1 Machine Learning-Backed Planning of Rapid COVID-19 Tests With Autonomous Vehicles With Zero-Day Considerations. *IEEE Transactions on Emerging Topics in Computational Intelligence*, **2022**, 6, 41-52 4.1