

Mehmet Can Vuran

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.

99 papers	8,857 citations	32 h-index	94 g-index
112 ext. papers	10,798 ext. citations	4.6 avg, IF	6.41 L-index

#	Paper	IF	Citations
99	NeXt generation/dynamic spectrum access/cognitive radio wireless networks: A survey. <i>Computer Networks</i> , 2006 , 50, 2127-2159	5.4	3966
98	A survey on spectrum management in cognitive radio networks 2008 , 46, 40-48		949
97	2010 ,		475
96	Spatio-temporal correlation: theory and applications for wireless sensor networks. <i>Computer Networks</i> , 2004 , 45, 245-259	5.4	425
95	Spatial correlation-based collaborative medium access control in wireless sensor networks. <i>IEEE/ACM Transactions on Networking</i> , 2006 , 14, 316-329	3.8	248
94	Signal propagation techniques for wireless underground communication networks. <i>Physical Communication</i> , 2009 , 2, 167-183	2.2	225
93	BorderSense: Border patrol through advanced wireless sensor networks. <i>Ad Hoc Networks</i> , 2011 , 9, 468-487	4.7	187
92	MISE-PIPE: Magnetic induction-based wireless sensor networks for underground pipeline monitoring. <i>Ad Hoc Networks</i> , 2011 , 9, 218-227	4.8	167
91	Autonomous precision agriculture through integration of wireless underground sensor networks with center pivot irrigation systems. <i>Ad Hoc Networks</i> , 2013 , 11, 1975-1987	4.8	144
90	Internet of underground things in precision agriculture: Architecture and technology aspects. <i>Ad Hoc Networks</i> , 2018 , 81, 160-173	4.8	130
89	Channel model and analysis for wireless underground sensor networks in soil medium. <i>Physical Communication</i> , 2010 , 3, 245-254	2.2	129
88	Error Control in Wireless Sensor Networks: A Cross Layer Analysis. <i>IEEE/ACM Transactions on Networking</i> , 2009 , 17, 1186-1199	3.8	122
87	XLP: A Cross-Layer Protocol for Efficient Communication in Wireless Sensor Networks. <i>IEEE Transactions on Mobile Computing</i> , 2010 , 9, 1578-1591	4.6	109
86	Cross-Layer Analysis of the End-to-End Delay Distribution in Wireless Sensor Networks. <i>IEEE/ACM Transactions on Networking</i> , 2012 , 20, 305-318	3.8	95
85	Semi-supervised near-miss fall detection for ironworkers with a wearable inertial measurement unit. <i>Automation in Construction</i> , 2016 , 68, 194-202	9.6	93
84	A Cross-Layer Protocol for Wireless Sensor Networks 2006 ,		83
83	Collective sensing of workers' gait patterns to identify fall hazards in construction. <i>Automation in Construction</i> , 2017 , 82, 166-178	9.6	66

82	Spatio-Temporal Event Model for Cyber-Physical Systems 2009 ,		58
81	Development of a Testbed for Wireless Underground Sensor Networks. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2010 , 2010,	3.2	53
80	The State of the Art in Cross-Layer Design for Wireless Sensor Networks. <i>Lecture Notes in Computer Science</i> , 2006 , 78-92	0.9	52
79	Communication with Aboveground Devices in Wireless Underground Sensor Networks: An Empirical Study 2010 ,		51
78	Di-Sense: In situ real-time permittivity estimation and soil moisture sensing using wireless underground communications. <i>Computer Networks</i> , 2019 , 151, 31-41	5.4	51
77	Empirical Evaluation of Wireless Underground-to-Underground Communication in Wireless Underground Sensor Networks. <i>Lecture Notes in Computer Science</i> , 2009 , 231-244	0.9	45
76	Cyber-physical systems in industrial process control. <i>ACM SIGBED Review</i> , 2008 , 5, 1-2	1.3	42
75	Pulses in the sand: Impulse response analysis of wireless underground channel 2016 ,		39
74	Cross-Layer Analysis of Error Control in Wireless Sensor Networks 2006 ,		39
73	. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 3996-4009	4.9	38
72	2016 ,		37
71	Internet of underground things: Sensing and communications on the field for precision agriculture 2018 ,		33
70	On the cross-layer interactions between congestion and contention in wireless sensor and actor networks. <i>Ad Hoc Networks</i> , 2007 , 5, 897-909	4.8	33
69	Smart underground antenna arrays: A soil moisture adaptive beamforming approach 2017 ,		32
68	On network connectivity of wireless sensor networks for sandstorm monitoring. <i>Computer Networks</i> , 2011 , 55, 1150-1157	5.4	32
67	(CPS) ² 2010 ,		32
66	Cooperative Spectrum Sensing in Cognitive Radio Networks Using Multidimensional Correlations. <i>IEEE Transactions on Wireless Communications</i> , 2014 , 13, 1832-1843	9.6	30
65	Wireless underground channel diversity reception with multiple antennas for internet of underground things 2017 ,		30

64	Sensing through the continent 2012 ,		29
63	Towards Internet of Underground Things in smart lighting: A statistical model of wireless underground channel 2017 ,		28
62	A concept lattice-based event model for Cyber-Physical Systems 2010 ,		27
61	Vehicle-to-barrier communication during real-world vehicle crash tests. <i>Computer Communications</i> , 2018 , 127, 172-186	5.1	26
60	EM-Based Wireless Underground Sensor Networks 2018 , 247-285		23
59	Impacts of soil moisture on cognitive radio underground networks 2013 ,		23
58	A reliable energy-efficient multi-level routing algorithm for wireless sensor networks using fuzzy Petri nets. <i>Sensors</i> , 2011 , 11, 3381-400	3.8	23
57	Spatio-temporal Characteristics of Point and Field Sources in Wireless Sensor Networks 2006 ,		23
56	Environment aware connectivity for wireless underground sensor networks 2013 ,		19
55	Mobile data harvesting in wireless underground sensor networks 2012 ,		18
54	Stochastic Analysis of Energy Consumption in Wireless Sensor Networks 2010 ,		18
53	Cross-Layer Analysis of the End-to-End Delay Distribution in Wireless Sensor Networks 2009 ,		18
52	Time-domain and Frequency-domain Reflectometry Type Soil Moisture Sensor Performance and Soil Temperature Effects in Fine- and Coarse-textured Soils. <i>Applied Engineering in Agriculture</i> , 2019 , 35, 117-134	0.8	15
51	SDRCS: A service-differentiated real-time communication scheme for event sensing in wireless sensor networks. <i>Computer Networks</i> , 2011 , 55, 3287-3302	5.4	14
50	Cross-Layer Packet Size Optimization for Wireless Terrestrial, Underwater, and Underground Sensor Networks 2008 ,		13
49	Cross-layer analysis of error control in underwater wireless sensor networks. <i>Computer Communications</i> , 2012 , 35, 2162-2172	5.1	12
48	A-MAC: Adaptive Medium Access Control for Next Generation Wireless Terminals. <i>IEEE/ACM Transactions on Networking</i> , 2007 , 15, 574-587	3.8	12
47	Analysis of event detection delay in wireless sensor networks 2011 ,		11

46	Vibration energy harvesting for wireless underground sensor networks 2013 ,		10
45	Shades of White: Impacts of Population Dynamics and TV Viewership on Available TV Spectrum. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 2427-2442	6.8	9
44	Spatio-temporal soil moisture measurement with wireless underground sensor networks 2010 ,		9
43	CFOSynt: Carrier frequency offset assisted clock syntonization for wireless sensor networks 2017 ,		8
42	Cost Efficiency of Anycast-Based Forwarding in Duty-Cycled WSNs with Lossy Channel 2010 ,		8
41	Connecting soil to the cloud: A wireless underground sensor network testbed 2012 ,		7
40	A Channel Model for Wireless Underground Sensor Networks Using Lateral Waves 2011 ,		6
39	Sensing through the continent: Towards monitoring migratory birds using cellular sensor networks 2012 ,		6
38	Empirical analysis of the hidden terminal problem in Wireless Underground Sensor Networks 2012 ,		6
37	Design of a Wireless Vision Sensor for object tracking in Wireless Vision Sensor Networks 2008 ,		6
36	A Primer on Vehicle-to-Barrier Communications: Effects of Roadside Barriers, Encroachment, and Vehicle Braking 2016 ,		6
35	A Statistical Impulse Response Model Based on Empirical Characterization of Wireless Underground Channels. <i>IEEE Transactions on Wireless Communications</i> , 2020 , 19, 5966-5981	9.6	5
34	CorTiS: Correlation-Based Time Synchronization in Internet of Things 2019 ,		5
33	Power efficiency of cooperative communication in wireless sensor networks 2009 ,		5
32	A service-differentiated real-time communication scheme for wireless sensor networks 2008 ,		5
31	Deep-Waveform: A Learned OFDM Receiver Based on Deep Complex-Valued Convolutional Networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2021 , 39, 2407-2420	14.2	5
30	A cognitive radio TV prototype for effective TV spectrum sharing 2017 ,		4
29	Ratings for spectrum: Impacts of TV viewership on TV whitespace 2014 ,		4

28	Exploiting soil moisture information for adaptive error control in wireless underground sensor networks 2013 ,		4
27	WSN Applications 2010 , 17-35		4
26	Topology Analysis of Wireless Sensor Networks for Sandstorm Monitoring 2011 ,		4
25	Dynamic Pricing of Wireless Internet Based on Usage and Stochastically Changing Capacity. <i>Manufacturing and Service Operations Management</i> , 2019 , 21, 833-852	4.6	3
24	Energy Consumption and Latency Analysis for Wireless Multimedia Sensor Networks 2010 ,		3
23	Cross-Layer Solutions 2010 , 221-242		3
22	A Dual-Network Testbed for Wireless Sensor Applications 2011 ,		3
21	Wireless Heterogeneous Networks and Next Generation Internet. <i>Mobile Networks and Applications</i> , 2010 , 15, 607-609	2.9	3
20	. <i>IEEE Vehicular Technology Magazine</i> , 2012 , 7, 23-24	9.9	2
19	SPRIDE: Scalable and private continual geo-distance evaluation for precision agriculture 2017 ,		2
18	Simulating and testing mobile wireless sensor networks 2010 ,		2
17	Towards Optimal Synchronization Scheduling in Internet of (Heterogeneous) Things 2019 ,		2
16	Network Time Connectivity for Wireless Networks 2020 ,		1
15	Demo abstract: Clock syntonization using CFO information in Wireless Sensor Networks 2017 ,		1
14	MPSBL: Multiple Transmit Power Assisted Sequence-Based Localization in Wireless Sensor Networks 2018 ,		1
13	Wireless Underground Sensor Networks: System in Support of Future Agriculture. <i>Journal of Nanotechnology in Engineering and Medicine</i> , 2013 , 4,		1
12	Error Control 2010 , 117-137		1
11	Wireless Underground Sensor Networks 2010 , 443-482		1

10	Analysis of the accuracy-latency-energy tradeoff for wireless embedded camera networks 2011 ,		1
9	Future Trends in Wireless Sensor Networks433-470		1
8	A city-wide experimental testbed for the next generation wireless networks. <i>Ad Hoc Networks</i> , 2021 , 111, 102305	4.8	1
7	Cross-layer Designs 2007 , 75-98		1
6	Transport Layer 2010 , 167-189		0
5	Stochastic Modeling of Delay, Energy Consumption, and Lifetime. <i>Signals and Communication Technology</i> , 2014 , 11-56	0.5	0
4	Physical Layer 2010 , 53-76		
3	Medium Access Control 2010 , 77-116		
2	Wireless Multimedia Sensor Networks 2010 , 349-397		
1	Grand Challenges 2010 , 483-490		