

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.

116 papers	3,702 citations	24 h-index	59 g-index
139 ext. papers	4,492 ext. citations	4 avg, IF	5.6 L-index

#	Paper	IF	Citations
116	Minimum-time control of robotic manipulators with geometric path constraints. <i>IEEE Transactions on Automatic Control</i> , 1985 , 30, 531-541	5.9	587
115	Real-time dynamic voltage scaling for low-power embedded operating systems 2001 ,		516
114	Efficient Discovery of Spectrum Opportunities with MAC-Layer Sensing in Cognitive Radio Networks. <i>IEEE Transactions on Mobile Computing</i> , 2008 , 7, 533-545	4.6	490
113	A dynamic programming approach to trajectory planning of robotic manipulators. <i>IEEE Transactions on Automatic Control</i> , 1986 , 31, 491-500	5.9	214
112	Defense Against Spoofed IP Traffic Using Hop-Count Filtering. <i>IEEE/ACM Transactions on Networking</i> , 2007 , 15, 40-53	3.8	201
111	Processor Allocation in an N-Cube Multiprocessor Using Gray Codes. <i>IEEE Transactions on Computers</i> , 1987 , C-36, 1396-1407	2.5	128
110	Fast Discovery of Spectrum Opportunities in Cognitive Radio Networks 2008 ,		98
109	Optimal Checkpointing of Real-Time Tasks. <i>IEEE Transactions on Computers</i> , 1987 , C-36, 1328-1341	2.5	72
108	A unified method for evaluating real-time computer controllers and its application. <i>IEEE Transactions on Automatic Control</i> , 1985 , 30, 357-366	5.9	70
107	Selection of near-minimum time geometric paths for robotic manipulators. <i>IEEE Transactions on Automatic Control</i> , 1986 , 31, 501-511	5.9	66
106	DESA: Dependable, Efficient, Scalable Architecture for Management of Large-Scale Batteries. <i>IEEE Transactions on Industrial Informatics</i> , 2012 , 8, 406-417	11.9	57
105	On Mobile Viruses Exploiting Messaging and Bluetooth Services 2006 ,		53
104	On Dynamic Reconfiguration of a Large-Scale Battery System 2009 ,		45
103	Clock Synchronization of a Large Multiprocessor System in the Presence of Malicious Faults. <i>IEEE Transactions on Computers</i> , 1987 , C-36, 2-12	2.5	43
102	Scheduling of Battery Charge, Discharge, and Rest 2009 ,		42
101	Real-time prediction of battery power requirements for electric vehicles 2013 ,		40
100	Adaptive Deadlock-Free Routing in Multicomputers Using Only One Extra Virtual Channel 1993 ,		40

99	Interference Analysis and Transmit Power Control in IEEE 802.11a/h Wireless LANs. <i>IEEE/ACM Transactions on Networking</i> , 2007 , 15, 1007-1020	3.8	37
98	Differentially private and strategy-proof spectrum auction with approximate revenue maximization 2015 ,		36
97	Suboptimal control of industrial manipulators with a weighted minimum time-fuel criterion. <i>IEEE Transactions on Automatic Control</i> , 1985 , 30, 1-10	5.9	36
96	A comparative study of bandwidth reservation and admission control schemes in QoS-sensitive cellular networks. <i>Wireless Networks</i> , 2000 , 6, 289-305	2.5	30
95	Robust trajectory planning for robotic manipulators under payload uncertainties. <i>IEEE Transactions on Automatic Control</i> , 1987 , 32, 1044-1054	5.9	27
94	Steering Crowdsourced Signal Map Construction via Bayesian Compressive Sensing 2018 ,		27
93	Pack Sizing and Reconfiguration for Management of Large-Scale Batteries 2012 ,		25
92	Evaluation of Error Recovery Blocks Used for Cooperating Processes. <i>IEEE Transactions on Software Engineering</i> , 1984 , SE-10, 692-700	3.5	24
91	Secure cooperative spectrum sensing and access against intelligent malicious behaviors 2014 ,		21
90	Exploiting Spectrum Heterogeneity in Dynamic Spectrum Market. <i>IEEE Transactions on Mobile Computing</i> , 2012 , 11, 2020-2032	4.6	21
89	Spatio-Temporal Capsule-based Reinforcement Learning for Mobility-on-Demand Network Coordination 2019 ,		20
88	Adaptive Subcarrier Nulling: Enabling partial spectrum sharing in wireless LANs 2011 ,		20
87	Aggregating Bandwidth for Multihomed Mobile Collaborative Communities. <i>IEEE Transactions on Mobile Computing</i> , 2007 , 6, 280-296	4.6	20
86	Real-time battery thermal management for electric vehicles 2014 ,		19
85	Opportunistic Access of TV Spectrum Using Cognitive-Radio-Enabled Cellular Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2011 , 60, 3853-3864	6.8	19
84	Optimal Dynamic Control of Resources in a Distributed System. <i>IEEE Transactions on Software Engineering</i> , 1989 , 15, 1188-1198	3.5	19
83	Performance measures for control computers. <i>IEEE Transactions on Automatic Control</i> , 1987 , 32, 467-473	5.9	19
82	Intertask communications in an integrated multirobot system. <i>IEEE Journal of Robotics and Automation</i> , 1987 , 3, 90-100		19

81	Chorus: Collision Resolution for Efficient Wireless Broadcast 2010 ,		18
80	MODELZ: Monitoring, Detection, and Analysis of Energy-Greedy Anomalies in Mobile Handsets. <i>IEEE Transactions on Mobile Computing</i> , 2011 , 10, 968-981	4.6	18
79	A router architecture for real-time point-to-point networks. <i>Computer Architecture News</i> , 1996 , 24, 237-246		18
78	A Fast and Memory-Efficient Trie Structure for Name-Based Packet Forwarding 2018 ,		18
77	Interference Steering to Manage Interference in IoT. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 10458-10471	10.7	15
76	Distributed Packet Forwarding and Caching Based on Stochastic Network Utility Maximization. <i>IEEE/ACM Transactions on Networking</i> , 2018 , 26, 1264-1277	3.8	15
75	DAC: Distributed Asynchronous Cooperation for Wireless Relay Networks 2010 ,		15
74	Controlling Preemption for Better Schedulability in Multi-Core Systems 2012 ,		14
73	Distributed tool sharing in flexible manufacturing systems. <i>IEEE Transactions on Automation Science and Engineering</i> , 1998 , 14, 379-389		14
72	Trade-Off Analysis of Real-Time Control Performance and Schedulability*. <i>Real-Time Systems</i> , 2001 , 21, 199-217	1.3	14
71	Design and Management of Satellite Power Systems 2013 ,		13
70	On the Granularity of Trie-Based Data Structures for Name Lookups and Updates. <i>IEEE/ACM Transactions on Networking</i> , 2019 , 27, 777-789	3.8	12
69	Asymmetry-Aware Real-Time Distributed Joint Resource Allocation in IEEE 802.22 WRANs 2010 ,		12
68	Efficient Sensing Matters a Lot for Large-Scale Batteries 2011 ,		12
67	Fast restoration of real-time communication service from component failures in multi-hop networks. <i>Computer Communication Review</i> , 1997 , 27, 77-88	1.4	12
66	Robust Adaptive Metrics for Deadline Assignment in Distributed Hard Real-Time Systems. <i>Real-Time Systems</i> , 2002 , 23, 239-271	1.3	12
65	Thermal-Aware Resource Management for Embedded Real-Time Systems. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2018 , 37, 2857-2868	2.5	11
64	Coordinated Multi-Point Transmissions Based on Interference Alignment and Neutralization. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 3347-3365	9.6	10

63	Closing the Gap Between Stability and Schedulability: A New Task Model for Cyber-Physical Systems 2018 ,		10
62	A cellular wireless local area network with QoS guarantees for heterogeneous traffic. <i>Mobile Networks and Applications</i> , 1998 , 3, 89-100	2.9	10
61	MUCA: New Routing for Named Data Networking 2018 ,		10
60	. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 6801-6818	6.8	9
59	(Re)Configuring Bike Station Network via Crowdsourced Information Fusion and Joint Optimization 2018 ,		9
58	Physical-State-Aware Dynamic Slack Management for Mixed-Criticality Systems 2018 ,		9
57	When and how much to neutralize interference? 2017 ,		9
56	Real-Time Discharge/Charge Rate Management for Hybrid Energy Storage in Electric Vehicles 2014 ,		8
55	Coverage Performance of Aerial-Terrestrial HetNets 2019 ,		7
54	Schedulability Analysis for a Mode Transition in Real-Time Multi-core Systems 2013 ,		7
53	A synthetic workload for a distributed real-time system. <i>Real-Time Systems</i> , 1996 , 11, 5-18	1.3	7
52	Coverage Performance of MIMO-MRC in Heterogeneous Networks: A Stochastic Geometry Perspective 2016 ,		7
51	Security and Privacy in the Internet of Things. <i>Computer</i> , 2019 , 52, 40-49	1.6	6
50	Exploiting interactions among signals to decode interfering transmissions with fewer receiving antennas. <i>Computer Communications</i> , 2019 , 136, 63-75	5.1	6
49	Decoding interfering signals with fewer receiving antennas 2016 ,		6
48	Modeling and Real-Time Scheduling of Large-Scale Batteries for Maximizing Performance 2015 ,		6
47	Enhancing wireless performance using reflectors 2017 ,		5
46	Dynamic Interference Steering in Heterogeneous Cellular Networks. <i>IEEE Access</i> , 2018 , 6, 28552-28562	3.5	5

45	Maximizing Transmission Opportunities in Wireless Multihop Networks. <i>IEEE Transactions on Mobile Computing</i> , 2013 , 12, 1879-1892	4.6	5
44	Multihop Transmission Opportunity in Wireless Multihop Networks 2010 ,		5
43	Throughput Behavior in Multihop Multiantenna Wireless Networks. <i>IEEE Transactions on Mobile Computing</i> , 2009 , 8, 1480-1494	4.6	5
42	Adaptive packet filters		5
41	Coordinated multi-point transmissions based on interference alignment and neutralization 2016 ,		5
40	Coverage Analysis of Multi-Stream MIMO HetNets With MRC Receivers. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 7816-7833	9.6	4
39	How Do Non-Ideal UAV Antennas Affect Air-to-Ground Communications? 2019 ,		4
38	Design and Adaptation of Multi-Interference Steering. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 3329-3346	9.6	4
37	Enhanced cognitive Radio Resource Management for LTE systems 2013 ,		4
36	Admission and Eviction Control of Cognitive Radio Users at Wi-Fi 2.0 Hotspots. <i>IEEE Transactions on Mobile Computing</i> , 2012 , 11, 1666-1677	4.6	4
35	Sidekick: AP aggregation over partially overlapping channels 2011 ,		4
34	A cost-effective multistage interconnection network with network overlapping and memory interleaving. <i>IEEE Transactions on Computers</i> , 1985 , C-34, 1088-1101	2.5	4
33	Thermal-Aware Scheduling for Integrated CPUs--GPU Platforms. <i>Transactions on Embedded Computing Systems</i> , 2019 , 18, 1-25	1.8	4
32	. <i>IEEE Transactions on Mobile Computing</i> , 2018 , 17, 1019-1032	4.6	3
31	Analytic evaluation of contention protocols used in distributed real-time systems. <i>Real-Time Systems</i> , 1995 , 9, 69-107	1.3	3
30	Software engineering of machine control systems: an approach to lifecycle economics		3
29	Effects of Computing Time Delay on Real-Time Control Systems 1988 ,		3
28	An Optimization Method for Multi-Operator and Mixed-Traffic LTE Deployments in the Unlicensed Bands 2018 ,		3

27	Interference Recycling: Exploiting Interfering Signals to Enhance Data Transmission 2019 ,		2
26	Spatio-Temporal Capsule-based Reinforcement Learning for Mobility-on-Demand Coordination. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2020 , 1-1	4.2	2
25	. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2020 , 31, 1783-1798	3.7	2
24	On Selfish Configuration in Wi-Fi Tethering. <i>IEEE Communications Letters</i> , 2013 , 17, 841-843	3.8	2
23	M-Polar: Channel Allocation for Throughput Maximization in SDR Mesh Networks 2010 ,		2
22	Automatic generation of trajectory planners for industrial robots		2
21	Causes and fixes of unexpected phone shutoffs 2020 ,		2
20	Inside-Out Precoding to Manage Multiple Interferences From the Same Source. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 7583-7595	6.8	2
19	Context-Aware Beam Tracking for 5G mmWave V2I Communications. <i>IEEE Transactions on Mobile Computing</i> , 2021 , 1-1	4.6	2
18	ICAS: an Extensible Framework for Estimating the Susceptibility of IC Layouts to Additive Trojans 2020 ,		2
17	Incentivizing Platform-User Interactions for Crowdsensing. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 8314-8327	3.7	2
16	Offline Guarantee and Online Management of Power Demand and Supply in Cyber-Physical Systems 2016 ,		2
15	Power Savings with CoMP Technology in Cellular Networks 2018 ,		1
14	On predictive routing of security contexts in an all-IP network. <i>Security and Communication Networks</i> , 2009 , 3, n/a-n/a	1.9	1
13	Impact of RTOS parameters on end-to-end timing performance. <i>ACM SIGBED Review</i> , 2008 , 5, 1-2	1.3	1
12	Distributed Authentication of Program Integrity Verification in Wireless Sensor Networks 2006 ,		1
11	A distributed I/O architecture for HARTS. <i>Computer Architecture News</i> , 1990 , 18, 332-342		1
10	Information Fusion for (Re)Configuring Bike Station Networks with Crowdsourcing. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2020 , 1-1	4.2	1

9	Optimal Design and Management of a Hybrid Energy Storage System 2019 ,		1
8	Coverage Performance in MIMO-ZFBF Dense HetNets with Multiplexing and LOS/NLOS Path-Loss Attenuation. <i>IEEE Transactions on Mobile Computing</i> , 2020 , 19, 2044-2061	4.6	1
7	Distribution Prediction for Reconfiguring Urban Dockless E-Scooter Sharing Systems. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2021 , 1-1	4.2	1
6	In-vehicle Phone Localization for Prevention of Distracted Driving. <i>IEEE Transactions on Mobile Computing</i> , 2022 , 1-1	4.6	0
5	Exploiting Interactions of Multiple Interferences for Their Cooperative Interference Alignment. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	0
4	Adaptive transmission in heterogeneous networks. <i>IET Communications</i> , 2017 , 11, 604-613	1.3	
3	A NEW LOCATION CODING SCHEME FOR INTELLIGENT TRANSPORTATION SYSTEMS. <i>Journal of Intelligent Transportation Systems</i> , 1996 , 3, 99-109		
2	Accurate Angular Inference for 802.11ad Devices Using Beam-Specific Measurements. <i>IEEE Transactions on Mobile Computing</i> , 2020 , 1-1	4.6	
1	Pervasive Pose Estimation for Fall Detection. <i>ACM Transactions on Computing for Healthcare</i> , 2022 , 3, 1-23	2.6	