

Kang G Shin

List of Publications by Year in descending order

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139
papers

5,298
citations

304743

22
h-index

155660

55
g-index

139
all docs

139
docs citations

139
times ranked

2855
citing authors

#	ARTICLE	IF	CITATIONS
1	Context-Aware Beam Tracking for 5G mmWave V2I Communications. IEEE Transactions on Mobile Computing, 2023, 22, 3257-3269.	5.8	8
2	In-Vehicle Phone Localization for Prevention of Distracted Driving. IEEE Transactions on Mobile Computing, 2023, 22, 3365-3379.	5.8	3
3	Accurate Angular Inference for 802.11ad Devices Using Beam-Specific Measurements. IEEE Transactions on Mobile Computing, 2022, 21, 822-834.	5.8	2
4	Spatio-Temporal Capsule-Based Reinforcement Learning for Mobility-on-Demand Coordination. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 1446-1461.	5.7	8
5	Distribution Prediction for Reconfiguring Urban Dockless E-Scooter Sharing Systems. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 5722-5740.	5.7	3
6	Information Fusion for (Re)Configuring Bike Station Networks With Crowdsourcing. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 736-752.	5.7	4
7	Pervasive Pose Estimation for Fall Detection. ACM Transactions on Computing for Healthcare, 2022, 3, 1-23.	5.0	3
8	Socially-Equitable Interactive Graph Information Fusion-based Prediction for Urban Dockless E-Scooter Sharing. , 2022, , .		2
9	DNN-SAM: Split-and-Merge DNN Execution for Real-Time Object Detection. , 2022, , .		5
10	Incentivizing Platformâ€™User Interactions for Crowdsensing. IEEE Internet of Things Journal, 2021, 8, 8314-8327.	8.7	4
11	Exploiting Interactions of Multiple Interferences for Their Cooperative Interference Alignment. IEEE Transactions on Wireless Communications, 2021, , 1-1.	9.2	3
12	iCoding: Countermeasure Against Interference and Eavesdropping in Wireless Communications. , 2021, , .		2
13	Coverage Performance in MIMO-ZFBF Dense HetNets with Multiplexing and LOS/NLOS Path-Loss Attenuation. IEEE Transactions on Mobile Computing, 2020, 19, 2044-2061.	5.8	3
14	ICAS: an Extensible Framework for Estimating the Susceptibility of IC Layouts to Additive Trojans. , 2020, , .		14
15	Power Guarantee for Electric Systems Using Real-Time Scheduling. IEEE Transactions on Parallel and Distributed Systems, 2020, 31, 1783-1798.	5.6	3
16	Causes and fixes of unexpected phone shutoffs. , 2020, , .		7
17	Inside-Out Precoding to Manage Multiple Interferences From the Same Source. IEEE Transactions on Vehicular Technology, 2020, 69, 7583-7595.	6.3	2
18	How Do Non-Ideal UAV Antennas Affect Air-to-Ground Communications?. , 2019, , .		5

#	ARTICLE	IF	CITATIONS
19	Design and Adaptation of Multi-Interference Steering. IEEE Transactions on Wireless Communications, 2019, 18, 3329-3346.	9.2	10
20	Spatio-Temporal Capsule-based Reinforcement Learning for Mobility-on-Demand Network Coordination. , 2019, , .		41
21	Interference Steering to Manage Interference in IoT. IEEE Internet of Things Journal, 2019, 6, 10458-10471.	8.7	34
22	Coverage Performance of Aerial-Terrestrial HetNets. , 2019, , .		8
23	Interference Recycling: Exploiting Interfering Signals to Enhance Data Transmission. , 2019, , .		2
24	On the Granularity of Trie-Based Data Structures for Name Lookups and Updates. IEEE/ACM Transactions on Networking, 2019, 27, 777-789.	3.8	16
25	Security and Privacy in the Internet of Things. Computer, 2019, 52, 40-49.	1.1	13
26	Coordinated Multi-Point Transmissions Based on Interference Alignment and Neutralization. IEEE Transactions on Wireless Communications, 2019, 18, 3347-3365.	9.2	16
27	Exploiting interactions among signals to decode interfering transmissions with fewer receiving antennas. Computer Communications, 2019, 136, 63-75.	5.1	7
28	Optimal Design and Management of a Hybrid Energy Storage System. , 2019, , .		1
29	Thermal-Aware Scheduling for Integrated CPUs-GPU Platforms. Transactions on Embedded Computing Systems, 2019, 18, 1-25.	2.9	17
30	Distributed Packet Forwarding and Caching Based on Stochastic Network Utility Maximization. IEEE/ACM Transactions on Networking, 2018, 26, 1264-1277.	3.8	22
31	Cell Association in Dense Heterogeneous Cellular Networks. IEEE Transactions on Mobile Computing, 2018, 17, 1019-1032.	5.8	4
32	MUCA: New Routing for Named Data Networking. , 2018, , .		19
33	Steering Crowdsourced Signal Map Construction via Bayesian Compressive Sensing. , 2018, , .		47
34	An Optimization Method for Multi-Operator and Mixed-Traffic LTE Deployments in the Unlicensed Bands. , 2018, , .		3
35	A Fast and Memory-Efficient Trie Structure for Name-Based Packet Forwarding. , 2018, , .		23
36	Thermal-Aware Resource Management for Embedded Real-Time Systems. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2018, 37, 2857-2868.	2.7	26

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37	Poster abstract: Routing meets caching in named data networks. , 2018, , .		2
38	(Re)Configuring Bike Station Network via Crowdsourced Information Fusion and Joint Optimization. , 2018, , .		12
39	Maximizing Quality of Aggregation in WSNs under Deadline and Interference Constraints. , 2018, , .		4
40	Dynamic Interference Steering in Heterogeneous Cellular Networks. IEEE Access, 2018, 6, 28552-28562.	4.2	10
41	Physical-State-Aware Dynamic Slack Management for Mixed-Criticality Systems. , 2018, , .		12
42	Closing the Gap Between Stability and Schedulability: A New Task Model for Cyber-Physical Systems. , 2018, , .		14
43	Power Savings with CoMP Technology in Cellular Networks. , 2018, , .		1
44	Coverage Performance in Multistream MIMO-ZFBF Heterogeneous Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 6801-6818.	6.3	15
45	Adaptive transmission in heterogeneous networks. IET Communications, 2017, 11, 604-613.	2.2	0
46	When and how much to neutralize interference?. , 2017, , .		12
47	Enhancing wireless performance using reflectors. , 2017, , .		10
48	Coverage Analysis of Multi-Stream MIMO HetNets With MRC Receivers. IEEE Transactions on Wireless Communications, 2017, 16, 7816-7833.	9.2	4
49	Coverage Performance of MIMO-MRC in Heterogeneous Networks: A Stochastic Geometry Perspective. , 2016, , .		8
50	Coordinated multi-point transmissions based on interference alignment and neutralization. , 2016, , .		7
51	Offline Guarantee and Online Management of Power Demand and Supply in Cyber-Physical Systems. , 2016, , .		5
52	Decoding interfering signals with fewer receiving antennas. , 2016, , .		8
53	EMS: Efficient Multicast Streaming Scheme for Multicasting within Wi-Fi Hotspot. , 2015, , .		1
54	Differentially private and strategy-proof spectrum auction with approximate revenue maximization. , 2015, , .		44

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55	Modeling and Real-Time Scheduling of Large-Scale Batteries for Maximizing Performance. , 2015, , .		7
56	MU-MIMO downlink scheduling based on users' correlation and fairness. , 2014, , .		3
57	Real-Time Discharge/Charge Rate Management for Hybrid Energy Storage in Electric Vehicles. , 2014, , .		12
58	Real-time battery thermal management for electric vehicles. , 2014, , .		29
59	Secure cooperative spectrum sensing and access against intelligent malicious behaviors. , 2014, , .		25
60	Enhanced cognitive Radio Resource Management for LTE systems. , 2013, , .		6
61	Schedulability Analysis for a Mode Transition in Real-Time Multi-core Systems. , 2013, , .		10
62	An Enhanced Spectrum Resource Allocation Algorithm for Femtocells. , 2013, , .		0
63	Distributed association control in shared wireless networks. , 2013, , .		1
64	Secure cooperative spectrum sensing in cognitive radio networks using interference signatures. , 2013, , .		3
65	Maximizing Transmission Opportunities in Wireless Multihop Networks. IEEE Transactions on Mobile Computing, 2013, 12, 1879-1892.	5.8	9
66	Design and Management of Satellite Power Systems. , 2013, , .		24
67	On Selfish Configuration in Wi-Fi Tethering. IEEE Communications Letters, 2013, 17, 841-843.	4.1	2
68	Real-time prediction of battery power requirements for electric vehicles. , 2013, , .		54
69	DESA: Dependable, Efficient, Scalable Architecture for Management of Large-Scale Batteries. IEEE Transactions on Industrial Informatics, 2012, 8, 406-417.	11.3	74
70	Controlling Preemption for Better Schedulability in Multi-Core Systems. , 2012, , .		17
71	Admission and Eviction Control of Cognitive Radio Users at Wi-Fi 2.0 Hotspots. IEEE Transactions on Mobile Computing, 2012, 11, 1666-1677.	5.8	7
72	Exploiting Spectrum Heterogeneity in Dynamic Spectrum Market. IEEE Transactions on Mobile Computing, 2012, 11, 2020-2032.	5.8	24

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73	Pack Sizing and Reconfiguration for Management of Large-Scale Batteries. , 2012, , .		36
74	Adaptive Subcarrier Nulling: Enabling partial spectrum sharing in wireless LANs. , 2011, , .		32
75	MODELZ: Monitoring, Detection, and Analysis of Energy-Greedy Anomalies in Mobile Handsets. IEEE Transactions on Mobile Computing, 2011, 10, 968-981.	5.8	24
76	Efficient Sensing Matters a Lot for Large-Scale Batteries. , 2011, , .		13
77	Sidekick: AP aggregation over partially overlapping channels. , 2011, , .		11
78	Opportunistic Access of TV Spectrum Using Cognitive-Radio-Enabled Cellular Networks. IEEE Transactions on Vehicular Technology, 2011, 60, 3853-3864.	6.3	24
79	On predictive routing of security contexts in an all-IP network. Security and Communication Networks, 2010, 3, 4-15.	1.5	1
80	M-Polar: Channel Allocation for Throughput Maximization in SDR Mesh Networks. , 2010, , .		3
81	Multihop Transmission Opportunity in Wireless Multihop Networks. , 2010, , .		9
82	Asymmetry-Aware Real-Time Distributed Joint Resource Allocation in IEEE 802.22 WRANs. , 2010, , .		14
83	Chorus: Collision Resolution for Efficient Wireless Broadcast. , 2010, , .		28
84	DAC: Distributed Asynchronous Cooperation for Wireless Relay Networks. , 2010, , .		16
85	Predictive routing of contexts in an overlay network. , 2009, , .		0
86	Scheduling of Battery Charge, Discharge, and Rest. , 2009, , .		56
87	On Dynamic Reconfiguration of a Large-Scale Battery System. , 2009, , .		63
88	Throughput Behavior in Multihop Multiantenna Wireless Networks. IEEE Transactions on Mobile Computing, 2009, 8, 1480-1494.	5.8	6
89	Fast Discovery of Spectrum Opportunities in Cognitive Radio Networks. , 2008, , .		118
90	Efficient Discovery of Spectrum Opportunities with MAC-Layer Sensing in Cognitive Radio Networks. IEEE Transactions on Mobile Computing, 2008, 7, 533-545.	5.8	663

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91	Impact of RTOS parameters on end-to-end timing performance. ACM SIGBED Review, 2008, 5, 1-2.	1.8	1
92	Aggregating Bandwidth for Multihomed Mobile Collaborative Communities. IEEE Transactions on Mobile Computing, 2007, 6, 280-296.	5.8	26
93	Interference Analysis and Transmit Power Control in IEEE 802.11a/h Wireless LANs. IEEE/ACM Transactions on Networking, 2007, 15, 1007-1020.	3.8	55
94	Defense Against Spoofed IP Traffic Using Hop-Count Filtering. IEEE/ACM Transactions on Networking, 2007, 15, 40-53.	3.8	286
95	Distributed Authentication of Program Integrity Verification in Wireless Sensor Networks. , 2006, , .		1
96	On Mobile Viruses Exploiting Messaging and Bluetooth Services. , 2006, , .		63
97	Robust Adaptive Metrics for Deadline Assignment in Distributed Hard Real-Time Systems. Real-Time Systems, 2002, 23, 239-271.	1.3	14
98	Real-time dynamic voltage scaling for low-power embedded operating systems. , 2001, , .		726
99	Trade-Off Analysis of Real-Time Control Performance and Schedulability*. Real-Time Systems, 2001, 21, 199-217.	1.3	18
100	Title is missing!. Wireless Networks, 2000, 6, 289-305.	3.0	46
101	A cellular wireless local area network with QoS guarantees for heterogeneous traffic. Mobile Networks and Applications, 1998, 3, 89-100.	3.3	14
102	Distributed tool sharing in flexible manufacturing systems. IEEE Transactions on Automation Science and Engineering, 1998, 14, 379-389.	2.3	17
103	Fast restoration of real-time communication service from component failures in multi-hop networks. Computer Communication Review, 1997, 27, 77-88.	1.8	17
104	A router architecture for real-time point-to-point networks. Computer Architecture News, 1996, 24, 237-246.	2.5	25
105	A synthetic workload for a distributed real-time system. Real-Time Systems, 1996, 11, 5-18.	1.3	9
106	A NEW LOCATION CODING SCHEME FOR INTELLIGENT TRANSPORTATION SYSTEMS. Journal of Intelligent Transportation Systems, 1996, 3, 99-109.	0.1	0
107	Analytic evaluation of contention protocols used in distributed real-time systems. Real-Time Systems, 1995, 9, 69-107.	1.3	3
108	Adaptive Deadlock-Free Routing in Multicomputers Using Only One Extra Virtual Channel. , 1993, , .		56

#	ARTICLE	IF	CITATIONS
109	Solving a Combinatorial Optimization Problem with Feedforward Neural Networks. , 1993, , .		0
110	Derivation of Hard Deadlines for Real-Time Control Systems. , 1992, , .		2
111	Design of an Industrial Process Controller using Neural Networks. , 1991, , .		6
112	Intelligent Coordination of Multiple Systems with Neural Networks. , 1991, , .		1
113	A distributed I/O architecture for HARTS. Computer Architecture News, 1990, 18, 332-342.	2.5	3
114	Design of a Knowledge-Based Controller for Intelligent Control Systems. , 1990, , .		1
115	Optimal Dynamic Control of Resources in a Distributed System. IEEE Transactions on Software Engineering, 1989, 15, 1188-1198.	5.6	25
116	Effects of Computing Time Delay on Real-Time Control Systems. , 1988, , .		7
117	Robot Trajectory Tracking with Self-Tuning Predicted Control. , 1988, , .		0
118	Performance measures for control computers. IEEE Transactions on Automatic Control, 1987, 32, 467-473.	5.7	27
119	Intertask communications in an integrated multirobot system. IEEE Journal of Robotics and Automation, 1987, 3, 90-100.	2.2	29
120	Robust trajectory planning for robotic manipulators under payload uncertainties. IEEE Transactions on Automatic Control, 1987, 32, 1044-1054.	5.7	36
121	Clock Synchronization of a Large Multiprocessor System in the Presence of Malicious Faults. IEEE Transactions on Computers, 1987, C-36, 2-12.	3.4	59
122	Optimal Checkpointing of Real-Time Tasks. IEEE Transactions on Computers, 1987, C-36, 1328-1341.	3.4	94
123	Processor Allocation in an N-Cube Multiprocessor Using Gray Codes. IEEE Transactions on Computers, 1987, C-36, 1396-1407.	3.4	200
124	A dynamic programming approach to trajectory planning of robotic manipulators. IEEE Transactions on Automatic Control, 1986, 31, 491-500.	5.7	293
125	Selection of near-minimum time geometric paths for robotic manipulators. IEEE Transactions on Automatic Control, 1986, 31, 501-511.	5.7	99
126	Incorporation of Payload Uncertainties into Robot Trajectory Planning. , 1986, , .		1

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127	A unified method for evaluating real-time computer controllers and its application. IEEE Transactions on Automatic Control, 1985, 30, 357-366.	5.7	89
128	Suboptimal control of industrial manipulators with a weighted minimum time-fuel criterion. IEEE Transactions on Automatic Control, 1985, 30, 1-10.	5.7	66
129	Minimum-time control of robotic manipulators with geometric path constraints. IEEE Transactions on Automatic Control, 1985, 30, 531-541.	5.7	840
130	A cost-effective multistage interconnection network with network overlapping and memory interleaving. IEEE Transactions on Computers, 1985, C-34, 1088-1101.	3.4	4
131	Evaluation of Error Recovery Blocks Used for Cooperating Processes. IEEE Transactions on Software Engineering, 1984, SE-10, 692-700.	5.6	30
132	Communication primitives for a distributed multi-robot system. , 0, , .		6
133	Automatic generation of trajectory planners for industrial robots. , 0, , .		6
134	Load Sharing In Hypercube Multicomputers In The Presence Of Node Failures. , 0, , .		2
135	Optimal Load Sharing In Distributed Real-time Systems. , 0, , .		0
136	DOCTOR: An Integrate Software Fault Injection environment - an Extended Abstract. , 0, , .		0
137	Software engineering of machine control systems: an approach to lifecycle economics. , 0, , .		3
138	QoS-Sensitive Protocol Processing In Shared-Memory Multiprocessor Multimedia Servers. , 0, , .		2
139	Adaptive packet filters. , 0, , .		7