

# Bhaskar Krishnamachari

## List of Publications by Year in descending order

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Version: 2024-02-01

191  
papers

9,192  
citations

117453

34  
h-index

69108

77  
g-index

192  
all docs

192  
docs citations

192  
times ranked

6425  
citing authors

#	ARTICLE	IF	CITATIONS
1	Federated Learning for the Internet of Things: Applications, Challenges, and Opportunities. IEEE Internet of Things Magazine, 2022, 5, 24-29.	2.0	74
2	Simulating COVID-19 classroom transmission on a university campus. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	6
3	An ICN-Based Data Marketplace Model Based on a Game Theoretic Approach Using Quality-Data Discovery and Profit Optimization. IEEE Transactions on Cloud Computing, 2022, , 1-17.	3.1	1
4	Optimal Trading on a Dynamic Curve Automated Market Maker. , 2022, , .		2
5	Inter-mobile-device distance estimation using network localization algorithms for digital contact logging applications. Smart Health, 2021, 19, 100168.	2.0	4
6	A Queue-Stabilizing Framework for Networked Multi-Robot Exploration. IEEE Robotics and Automation Letters, 2021, 6, 2091-2098.	3.3	11
7	Dynamic Automated Market Makers for Decentralized Cryptocurrency Exchange. , 2021, , .		10
8	Simulating the MakerDAO Stablecoin. , 2021, , .		1
9	Control, intervention, and behavioral economics over human social networks against COVID-19. Advanced Robotics, 2021, 35, 733-739.	1.1	0
10	Blockchain-enabled Personalized Incentives for Sustainable Behavior in Smart Cities. , 2021, , .		3
11	TEAM: Trilateration for Exploration and Mapping with Robotic Networks. , 2021, , .		0
12	ARREST: A RSSI Based Approach for Mobile Sensing and Tracking of a Moving Object. IEEE Transactions on Mobile Computing, 2020, 19, 1260-1273.	3.9	9
13	TAMUâ€RPL: Thompson samplingâ€based multichannel RPL. Transactions on Emerging Telecommunications Technologies, 2020, 31, e3806.	2.6	2
14	Closed-Form Whittleâ€™s Index-Enabled Random Access for Timely Status Update. IEEE Transactions on Communications, 2020, 68, 1538-1551.	4.9	70
15	MABSTA: Collaborative Computing over Heterogeneous Devices in Dynamic Environments. , 2020, , .		5
16	Mobile Encounter-based Social Sybil Control. , 2020, , .		3
17	WhistleBlower: Towards A Decentralized and Open Platform for Spotting Fake News. , 2020, , .		7
18	Demo Abstract: The Intelligent IoT Integrator Data Marketplace - Version 1. , 2020, , .		4

#	ARTICLE	IF	CITATIONS
19	Heat-Diffusion: Pareto Optimal Dynamic Routing for Time-Varying Wireless Networks. IEEE/ACM Transactions on Networking, 2020, 28, 1520-1533.	2.6	4
20	Energy and Latency Aware Resource Management for Solar Powered Cellular Networks. IEEE Network, 2020, 34, 246-253.	4.9	6
21	SENATE: A Permissionless Byzantine Consensus Protocol in Wireless Networks for Real-Time Internet-of-Things Applications. IEEE Internet of Things Journal, 2020, 7, 6576-6588.	5.5	11
22	Differential Pricing of 5G Network Slices for Heterogeneous Customers. , 2020, , .		4
23	COVID-19 Risk Estimation using a Time-varying SIR-model. , 2020, , .		15
24	Solving the Buyer and Seller's Dilemma: A Dual-Deposit Escrow Smart Contract for Provably Cheat-Proof Delivery and Payment for a Digital Good without a Trusted Mediator. , 2019, , .		41
25	Trinity: A Byzantine Fault-Tolerant Distributed Publish-Subscribe System with Immutable Blockchain-based Persistence. , 2019, , .		29
26	FWB: Funneling Wider Bandwidth algorithm for high performance data collection in Wireless Sensor Networks. Computer Communications, 2019, 148, 136-151.	3.1	6
27	Enhancing Engagement in Token-Curated Registries via an Inflationary Mechanism. , 2019, , .		3
28	SDPP: Streaming Data Payment Protocol for Data Economy. , 2019, , .		8
29	Distributionally Robust Radio Frequency Localization. IEEE Transactions on Signal and Information Processing Over Networks, 2019, 5, 390-403.	1.6	0
30	An Evaluation of Consensus Latency in Partitioning Networks. , 2019, , .		1
31	Information Autonomy: Self-Adaptive Information Management for Edge-Assisted Autonomous UAV Systems. , 2019, , .		2
32	BlendSM-DDM: BLockchain-ENABLED Secure Microservices for Decentralized Data Marketplaces. , 2019, , .		22
33	PayFlow: Micropayments for Bandwidth Reservations in Software Defined Networks. , 2019, , .		8
34	Timely Status Update in Wireless Uplinks: Analytical Solutions With Asymptotic Optimality. IEEE Internet of Things Journal, 2019, 6, 3885-3898.	5.5	73
35	Deep Reinforcement Learning for Dynamic Multichannel Access in Wireless Networks. IEEE Transactions on Cognitive Communications and Networking, 2018, 4, 257-265.	4.9	328
36	Online Learning Schemes for Power Allocation in Energy Harvesting Communications. IEEE Transactions on Information Theory, 2018, 64, 4610-4628.	1.5	15

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37	A Unifying Bayesian Optimization Framework for Radio Frequency Localization. IEEE Transactions on Cognitive Communications and Networking, 2018, 4, 135-145.	4.9	8
38	Green Energy and Delay Aware Downlink Power Control and User Association for Off-Grid Solar-Powered Base Stations. IEEE Systems Journal, 2018, 12, 2622-2633.	2.9	32
39	MABO&TSC: Multihop and blacklist&based optimized time synchronized channel hopping. Transactions on Emerging Telecommunications Technologies, 2018, 29, e3223.	2.6	35
40	Streaming Data Payment Protocol (SDPP) for the Internet of Things. , 2018, , .		18
41	SmartEdge: A Smart Contract for Edge Computing. , 2018, , .		18
42	Optimal Sleeping Mechanism for Multiple Servers With MMPP-Based Bursty Traffic Arrival. IEEE Wireless Communications Letters, 2018, 7, 436-439.	3.2	6
43	End-to-End Network Performance Monitoring for Dispersed Computing. , 2018, , .		9
44	DeepNap: Data-Driven Base Station Sleeping Operations Through Deep Reinforcement Learning. IEEE Internet of Things Journal, 2018, 5, 4273-4282.	5.5	61
45	Robotic Message Ferrying for Wireless Networks Using Coarse-Grained Backpressure Control. IEEE Transactions on Mobile Computing, 2017, 16, 498-510.	3.9	11
46	Hermes: Latency Optimal Task Assignment for Resource-constrained Mobile Computing. IEEE Transactions on Mobile Computing, 2017, 16, 3056-3069.	3.9	180
47	An adaptive approach for UAV-based pesticide spraying in dynamic environments. Computers and Electronics in Agriculture, 2017, 138, 210-223.	3.7	137
48	Two-Stage Deployment Strategy for Wireless Robotic Networks via a Class of Interaction Models. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 1510-1521.	5.9	16
49	Empirical evaluation of the heat-diffusion collection protocol for wireless sensor networks. Computer Networks, 2017, 127, 217-232.	3.2	3
50	A Wait-and-See Two-Threshold Optimal Sleeping Policy for a Single Server With Bursty Traffic. IEEE Transactions on Green Communications and Networking, 2017, 1, 528-540.	3.5	5
51	A reinforcement learning approach to optimize downloads over mobile networks. , 2017, , .		0
52	Delay Aware Resource Management for Grid Energy Savings in Green Cellular Base Stations With Hybrid Power Supplies. IEEE Transactions on Communications, 2017, 65, 1092-1104.	4.9	35
53	Computing inter-encounter time distributions for multiple random walkers on graphs. , 2017, , .		0
54	Contextual combinatorial bandits in wireless distributed computing. , 2017, , .		2

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55	Optimizing Downloads over Random Duration Links in Mobile Networks. , 2016, , .		3
56	Solar powered cellular base stations: current scenario, issues and proposed solutions. , 2016, 54, 108-114.		90
57	Efficient Mechanism Design for Competitive Carrier Selection and Rate Allocation. IEEE Transactions on Vehicular Technology, 2016, 65, 10222-10226.	3.9	0
58	Energy Efficient Data Collection via Supervised In-Network Classification of Sensor Data. , 2016, , .		2
59	Power Outage Estimation and Resource Dimensioning for Solar Powered Cellular Base Stations. IEEE Transactions on Communications, 2016, 64, 5278-5289.	4.9	30
60	Online learning of power allocation policies in energy harvesting communications. , 2016, , .		6
61	Optimal Operation of a Green Server with Bursty Traffic. , 2016, , .		5
62	Prefetching-Based Data Dissemination in Vehicular Cloud Systems. IEEE Transactions on Vehicular Technology, 2016, 65, 292-306.	3.9	62
63	An Energy and Delay Aware Downlink Power Control Strategy for Solar Powered Base Stations. IEEE Communications Letters, 2016, 20, 954-957.	2.5	16
64	Backpressure Delay Enhancement for Encounter-Based Mobile Networks While Sustaining Throughput Optimality. IEEE/ACM Transactions on Networking, 2016, 24, 1196-1208.	2.6	23
65	Traffic matrix estimation from road sensor data. , 2015, , .		6
66	The optimism principle: A unified framework for optimal robotic network deployment in an unknown obstructed environment. , 2015, , .		5
67	Tracking of real-valued Markovian random processes with asymmetric cost and observation. , 2015, , .		2
68	Optimal control for epidemic routing of two files with different priorities in Delay Tolerant Networks. , 2015, , .		5
69	Comparative assessment of an indoor localization framework for building emergency response. Automation in Construction, 2015, 57, 42-54.	4.8	19
70	A privacy mechanism for mobile-based urban traffic monitoring. Pervasive and Mobile Computing, 2015, 20, 1-12.	2.1	10
71	Hermes: Latency optimal task assignment for resource-constrained mobile computing. , 2015, , .		63
72	Harnessing Non-Uniform Transmit Power Levels for Improved Sequence Based Localization. , 2014, , .		5

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73	Optimizing mobile computational offloading with delay constraints. , 2014, , .		29
74	Resource provisioning and dimensioning for solar powered cellular base stations. , 2014, , .		23
75	Throughput-Optimal Robotic Message Ferrying for Wireless Networks Using Backpressure Control. , 2014, , .		4
76	Evaluation of Seed Selection Strategies for Vehicle to Vehicle Epidemic Information Dissemination. , 2014, , .		1
77	Multi-channel Data Collection for Throughput Maximization in Wireless Sensor Networks. , 2014, , .		5
78	Route swarm: Wireless network optimization through mobility. , 2014, , .		21
79	A BIM centered indoor localization algorithm to support building fire emergency response operations. Automation in Construction, 2014, 42, 78-89.	4.8	158
80	Heat-Diffusion: Pareto optimal dynamic routing for time-varying wireless networks. , 2014, , .		14
81	Distributed Stochastic Online Learning Policies for Opportunistic Spectrum Access. IEEE Transactions on Signal Processing, 2014, 62, 6184-6193.	3.2	59
82	Microeconomic analysis of base-station sharing in green cellular networks. , 2014, , .		26
83	Distributed Storage Codes Reduce Latency in Vehicular Networks. IEEE Transactions on Mobile Computing, 2014, 13, 2016-2027.	3.9	22
84	DAWN: A density adaptive routing for deadline-based data collection in vehicular delay tolerant networks. Tsinghua Science and Technology, 2013, 18, 230-241.	4.1	14
85	Energy-efficient deployment strategies in structural health monitoring using wireless sensor networks. Structural Control and Health Monitoring, 2013, 20, 971-986.	1.9	41
86	Online Learning for Personalized Room-Level Thermal Control. , 2013, , .		7
87	Power allocation over two identical Gilbert-Elliott channels. , 2013, , .		2
88	Dynamic Base Station Switching-On/Off Strategies for Green Cellular Networks. IEEE Transactions on Wireless Communications, 2013, 12, 2126-2136.	6.1	339
89	Bayesian congestion control over a Markovian network bandwidth process. , 2013, , .		3
90	Optimal power allocation over multiple identical Gilbert-Elliott channels. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
91	Introduction to the Issue on Learning-Based Decision Making in Dynamic Systems Under Uncertainty. IEEE Journal on Selected Topics in Signal Processing, 2013, 7, 743-745.	7.3	2
92	Optimality of myopic policy for a class of monotone affine restless multi-armed bandits. , 2012, , .		11
93	Online learning for combinatorial network optimization with restless Markovian rewards. , 2012, , .		10
94	SpeedBalance: Speed-scaling-aware optimal load balancing for green cellular networks. , 2012, , .		46
95	Minimum Latency Data Diffusion in Intermittently Connected Mobile Networks. , 2012, , .		1
96	Semi-Markov state estimation and policy optimization for energy efficient mobile sensing. , 2012, , .		11
97	Heat diffusion algorithm for resource allocation and routing in multihop wireless networks. , 2012, , .		9
98	Fast Data Collection in Tree-Based Wireless Sensor Networks. IEEE Transactions on Mobile Computing, 2012, 11, 86-99.	3.9	236
99	Combinatorial Network Optimization With Unknown Variables: Multi-Armed Bandits With Linear Rewards and Individual Observations. IEEE/ACM Transactions on Networking, 2012, 20, 1466-1478.	2.6	262
100	Online learning algorithms for stochastic water-filling. , 2012, , .		11
101	Decentralized Online Learning Algorithms for Opportunistic Spectrum Access. , 2011, , .		27
102	The saturation throughput region of p-persistent CSMA. , 2011, , .		13
103	Energy-aware hierarchical cell configuration: From deployment to operation. , 2011, , .		48
104	Multichannel Scheduling and Spanning Trees: Throughputâ€“Delay Tradeoff for Fast Data Collection in Sensor Networks. IEEE/ACM Transactions on Networking, 2011, 19, 1731-1744.	2.6	42
105	Base Station Operation and User Association Mechanisms for Energy-Delay Tradeoffs in Green Cellular Networks. IEEE Journal on Selected Areas in Communications, 2011, 29, 1525-1536.	9.7	382
106	Toward dynamic energy-efficient operation of cellular network infrastructure. , 2011, 49, 56-61.		472
107	Design and analysis of a propagation delay tolerant ALOHA protocol for underwater networks. Ad Hoc Networks, 2011, 9, 752-766.	3.4	45
108	On Hardness of Multiflow Transmission in Delay Constrained Cooperative Wireless Networks. , 2011, , .		5

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109	On a restless multi-armed bandit problem with non-identical arms. , 2011, , .		5
110	On the Combinatorial Multi-Armed Bandit Problem with Markovian Rewards. , 2011, , .		3
111	A packet dropping-based incentive mechanism for M/M/1 queues with selfish users. , 2011, , .		13
112	The non-Bayesian restless multi-armed bandit: A case of near-logarithmic regret. , 2011, , .		37
113	Maximizing Lifetime Sensing Coverage in Heterogeneous Sensors Deployments. IEICE Transactions on Communications, 2010, E93-B, 2859-2867.	0.4	0
114	Energy Efficient Transmission Strategies for Body Sensor Networks with Energy Harvesting. IEEE Transactions on Communications, 2010, 58, 2116-2126.	4.9	121
115	Subcarrier Allocation in Multiuser OFDM Systems: Complexity and Approximability. , 2010, , .		23
116	Energy routing on the future grid: A stochastic network optimization approach. , 2010, , .		18
117	Backpressure Routing Made Practical. , 2010, , .		8
118	Cooperative Sensing and Compression in Vehicular Sensor Networks for Urban Monitoring. , 2010, , .		42
119	Dynamic Multichannel Access With Imperfect Channel State Detection. IEEE Transactions on Signal Processing, 2010, 58, 2795-2808.	3.2	96
120	Handling inelastic traffic in wireless sensor networks. IEEE Journal on Selected Areas in Communications, 2010, 28, 1105-1115.	9.7	32
121	Energy Savings through Dynamic Base Station Switching in Cellular Wireless Access Networks. , 2010, , .		187
122	Bounded-Degree Minimum-Radius Spanning Trees for Fast Data Collection in Sensor Networks. , 2010, , .		4
123	Exploiting the wisdom of the crowd: localized, distributed information-centric VANETs [Topics in Automotive Networking]. IEEE Communications Magazine, 2010, 48, 138-146.	4.9	510
124	Approximation algorithms for link scheduling with physical interference model in wireless multi-hop networks. , 2010, , .		2
125	An Incentive Mechanism for M/M/1 Queues with Selfish Users. , 2010, , .		0
126	Link Scheduling in a Single Broadcast Domain Underwater Networks. , 2010, , .		4



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127	Learning Multiuser Channel Allocations in Cognitive Radio Networks: A Combinatorial Multi-Armed Bandit Formulation. , 2010, , .		128
128	Optimality of Myopic Sensing in Multichannel Opportunistic Access. IEEE Transactions on Information Theory, 2009, 55, 4040-4050.	1.5	286
129	Static Replication Strategies for Content Availability in Vehicular Ad-hoc Networks. Mobile Networks and Applications, 2009, 14, 590-610.	2.2	11
130	Using Heterogeneity to Enhance Random Walk-based Queries. Journal of Signal Processing Systems, 2009, 57, 401-414.	1.4	2
131	Maximizing network utilization with max $\epsilon$ -min fairness in wireless sensor networks. Wireless Networks, 2009, 15, 585-600.	2.0	30
132	Using Local Geometry for Tunable Topology Control in Sensor Networks. IEEE Transactions on Mobile Computing, 2009, 8, 218-230.	3.9	44
133	Scaling Laws for Data-Centric Storage and Querying in Wireless Sensor Networks. IEEE/ACM Transactions on Networking, 2009, 17, 1242-1255.	2.6	8
134	Findings from an empirical study of fine-grained human social contacts. , 2009, , .		13
135	Implementing backpressure-based rate control in wireless networks. , 2009, , .		17
136	Feasibility of the receiver capacity model for multi-hop wireless networks. , 2009, , .		1
137	Fast Flooding using Cooperative Transmissions in Wireless Networks. , 2009, , .		5
138	On the Multihop Performance of Synchronization Mechanisms in High Propagation Delay Networks. IEEE Transactions on Computers, 2009, 58, 577-590.	2.4	13
139	Game Theoretic Tools Applied to Wireless Networks. , 2009, , 181-215.		0
140	Aging analysis in large-scale wireless sensor networks. Ad Hoc Networks, 2008, 6, 1117-1133.	3.4	29
141	A framework for multi-robot node coverage in sensor networks. Annals of Mathematics and Artificial Intelligence, 2008, 52, 281-305.	0.9	26
142	On myopic sensing for multi-channel opportunistic access: structure, optimality, and performance. IEEE Transactions on Wireless Communications, 2008, 7, 5431-5440.	6.1	282
143	Enhancement of the IEEE 802.15.4 MAC protocol for scalable data collection in dense sensor networks. , 2008, , .		23
144	Data Gathering with Tunable Compression in Sensor Networks. IEEE Transactions on Parallel and Distributed Systems, 2008, 19, 276-287.	4.0	37

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145	IEEE 802.11p performance evaluation and protocol enhancement. , 2008, , .		89
146	Enhancing the Data Collection Rate of Tree-Based Aggregation in Wireless Sensor Networks. , 2008, , .		49
147	MIGM: Mobile Interaction Games with Motes. , 2008, , .		1
148	Making distributed rate control using Lyapunov drifts a reality in wireless sensor networks. , 2008, , .		8
149	Sequence-Based Localization in Wireless Sensor Networks. IEEE Transactions on Mobile Computing, 2008, 7, 81-94.	3.9	76
150	Optimality of Myopic Sensing in Multi-Channel Opportunistic Access. , 2008, , .		44
151	Optimal Sink Deployment for Distributed Sensing of Spatially Nonstationary Phenomena. , 2007, , .		2
152	Modeling Search Costs in Wireless Sensor Networks. , 2007, , .		6
153	Efficient Distributed Topology Control in 3-Dimensional Wireless Networks. , 2007, , .		18
154	Maximizing Network Utilization with Max-Min Fairness in Wireless Sensor Networks. , 2007, , .		12
155	Minimum latency joint scheduling and routing in wireless sensor networks. Ad Hoc Networks, 2007, 5, 832-843.	3.4	33
156	An adaptive energy-efficient and low-latency MAC for tree-based data gathering in sensor networks. Wireless Communications and Mobile Computing, 2007, 7, 863-875.	0.8	153
157	Energy Minimization for Real-Time Data Gathering in Wireless Sensor Networks. IEEE Transactions on Wireless Communications, 2006, 5, 3087-3096.	6.1	65
158	Decentralized Utility-based Sensor Network Design. Mobile Networks and Applications, 2006, 11, 341-350.	2.2	40
159	Active query forwarding in sensor networks. Ad Hoc Networks, 2005, 3, 91-113.	3.4	102
160	Optimal Transmission Radius for Flooding in Large Scale Sensor Networks. Cluster Computing, 2005, 8, 167-178.	3.5	15
161	Maximizing Data Extraction in Energy-Limited Sensor Networks. International Journal of Distributed Sensor Networks, 2005, 1, 123-147.	1.3	14
162	Issues in designing middleware for wireless sensor networks. IEEE Network, 2004, 18, 15-21.	4.9	118

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163	Optimal Sequential Paging in Cellular Wireless Networks. <i>Wireless Networks</i> , 2004, 10, 121-131.	2.0	55
164	Placement of Continuous Media in Wireless Peer-to-Peer Networks. <i>IEEE Transactions on Multimedia</i> , 2004, 6, 335-342.	5.2	32
165	The effect of mobility-induced location errors on geographic routing in mobile ad hoc sensor networks: analysis and improvement using mobility prediction. <i>IEEE Transactions on Mobile Computing</i> , 2004, 3, 233-245.	3.9	140
166	C2P2: a peer-to-peer network for on-demand automobile information services. , 2004, , .		14
167	Optimal Information Extraction in Energy-Limited Wireless Sensor Networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2004, 22, 1121-1129.	9.7	71
168	Modeling Path Duration Distributions in MANETs and Their Impact on Reactive Routing Protocols. <i>IEEE Journal on Selected Areas in Communications</i> , 2004, 22, 1357-1373.	9.7	140
169	Distributed Bayesian algorithms for fault-tolerant event region detection in wireless sensor networks. <i>IEEE Transactions on Computers</i> , 2004, 53, 241-250.	2.4	505
170	On the Complexity of Distributed Self-Configuration in Wireless Networks. <i>Telecommunication Systems</i> , 2003, 22, 33-59.	1.6	28
171	Analysis of energy-efficient, fair routing in wireless sensor networks through non-linear optimization. , 2003, , .		56
172	On multicast flow control for heterogeneous receivers. <i>IEEE/ACM Transactions on Networking</i> , 2002, 10, 86-101.	2.6	23
173	Optimal transmission radius for flooding in large scale sensor networks. , 0, , .		10
174	The energy-robustness tradeoff for routing in wireless sensor networks. , 0, , .		16
175	Node aging effect on connectivity of data gathering trees in sensor networks. , 0, , .		2
176	Impact of heterogeneous deployment on lifetime sensing coverage in sensor networks. , 0, , .		33
177	Hybrid data and decision fusion techniques for model-based data gathering in wireless sensor networks. , 0, , .		1
178	Energy-latency tradeoffs for data gathering in wireless sensor networks. , 0, , .		115
179	The effect of mobility-induced location errors on geographic routing in ad hoc networks: analysis and improvement using mobility prediction. , 0, , .		16
180	ELECTION: energy-efficient and low-latency scheduling technique for wireless sensor networks. , 0, , .		14

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181	Max-min fair collision-free scheduling for wireless sensor networks. , 0, , .		31
182	An adaptive energy-efficient and low-latency MAC for data gathering in wireless sensor networks. , 0, , .		365
183	Distributed parameter estimation for monitoring diffusion phenomena using physical models. , 0, , .		45
184	Performance evaluation of the IEEE 802.15.4 MAC for low-rate low-power wireless networks. , 0, , .		116
185	Maximizing data extraction in energy-limited sensor networks. , 0, , .		59
186	Cooperative communication and routing over fading channels in wireless sensor networks. , 0, , .		24
187	Ecolocation: a sequence based technique for RF localization in wireless sensor networks. , 0, , .		95
188	A local metric for geographic routing with power control in wireless networks. , 0, , .		14
189	Energy efficient joint scheduling and power control for wireless sensor networks. , 0, , .		9
190	Delay efficient sleep scheduling in wireless sensor networks. , 0, , .		118
191	Optimizing Data Replication for Expanding Ring-based Queries in Wireless Sensor Networks. , 0, , .		23