

Lang Tong

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168
papers

3,668
citations

32
h-index

55
g-index

215
ext. papers

4,550
ext. citations

5.6
avg. IF

5.75
L-index

#	Paper	IF	Citations
168	Opportunistic Spectrum Access via Periodic Channel Sensing. <i>IEEE Transactions on Signal Processing</i> , 2008 , 56, 785-796	4.8	238
167	Malicious Data Attacks on Smart Grid State Estimation: Attack Strategies and Countermeasures 2010 ,		197
166	On Topology Attack of a Smart Grid: Undetectable Attacks and Countermeasures. <i>IEEE Journal on Selected Areas in Communications</i> , 2013 , 31, 1294-1305	14.2	183
165	Cognitive Medium Access: Constraining Interference Based on Experimental Models. <i>IEEE Journal on Selected Areas in Communications</i> , 2008 , 26, 95-105	14.2	156
164	Optimal insertion of pilot symbols for transmissions over time-varying flat fading channels. <i>IEEE Transactions on Signal Processing</i> , 2004 , 52, 1403-1418	4.8	121
163	Distributed Detection in the Presence of Byzantine Attacks. <i>IEEE Transactions on Signal Processing</i> , 2009 , 57, 16-29	4.8	117
162	Subspace Methods for Data Attack on State Estimation: A Data Driven Approach. <i>IEEE Transactions on Signal Processing</i> , 2015 , 63, 1102-1114	4.8	115
161	Sensor networks with mobile agents		114
160	Modeling and Stochastic Control for Home Energy Management. <i>IEEE Transactions on Smart Grid</i> , 2013 , 4, 2244-2255	10.7	113
159	A Measurement-Based Model for Dynamic Spectrum Access in WLAN Channels 2006 ,		113
158	Optimal design and placement of pilot symbols for channel estimation. <i>IEEE Transactions on Signal Processing</i> , 2002 , 50, 3055-3069	4.8	105
157	Limiting false data attacks on power system state estimation 2010 ,		88
156	Impact of Data Quality on Real-Time Locational Marginal Price. <i>IEEE Transactions on Power Systems</i> , 2014 , 29, 627-636	7	75
155	Decentralized cognitive mac for dynamic spectrum access		73
154	Signal processing in random access. <i>IEEE Signal Processing Magazine</i> , 2004 , 21, 29-39	9.4	73
153	Asymptotic Detection Performance of Type-Based Multiple Access Over Multiaccess Fading Channels. <i>IEEE Transactions on Signal Processing</i> , 2007 , 55, 1081-1092	4.8	53
152	iEMS for large scale charging of electric vehicles: Architecture and optimal online scheduling 2012 ,		50

151	Online Data Integrity Attacks Against Real-Time Electrical Market in Smart Grid. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 313-322	10.7	45
150	Anonymous Networking Amidst Eavesdroppers. <i>IEEE Transactions on Information Theory</i> , 2008 , 54, 2770-2884	4.8	44
149	Detecting Encrypted Stepping-Stone Connections. <i>IEEE Transactions on Signal Processing</i> , 2007 , 55, 1612-1623	4.8	44
148	Joint Frequency and Phasor Estimation Under the KCL Constraint. <i>IEEE Signal Processing Letters</i> , 2013 , 20, 575-578	3.2	43
147	Malicious data attack on real-time electricity market 2011 ,		41
146	Type-Based Random Access for Distributed Detection Over Multiaccess Fading Channels. <i>IEEE Transactions on Signal Processing</i> , 2007 , 55, 5032-5043	4.8	38
145	Dynamic Scheduling for Charging Electric Vehicles: A Priority Rule. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 4094-4099	5.9	38
144	A Characterization of Delay Performance of Cognitive Medium Access. <i>IEEE Transactions on Wireless Communications</i> , 2012 , 11, 800-809	9.6	35
143	Optimal Cognitive Access of Markovian Channels under Tight Collision Constraints. <i>IEEE Journal on Selected Areas in Communications</i> , 2011 , 29, 746-756	14.2	35
142	Sensor Networks With Mobile Access: Energy and Capacity Considerations. <i>IEEE Transactions on Communications</i> , 2006 , 54, 2033-2044	6.9	35
141	Detection of Gaussian Markov Random Fields With Nearest-Neighbor Dependency. <i>IEEE Transactions on Information Theory</i> , 2009 , 55, 816-827	2.8	34
140	Coordinated Multi-Area Economic Dispatch via Critical Region Projection. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 3736-3746	7	33
139	Impacts of Malicious Data on Real-Time Price of Electricity Market Operations 2012 ,		33
138	Optimal Channel-Aware ALOHA Protocol for Random Access in WLANs With Multipacket Reception and Decentralized Channel State Information. <i>IEEE Transactions on Signal Processing</i> , 2008 , 56, 2575-2588	4.8	32
137	Quantization for Maximin ARE in Distributed Estimation. <i>IEEE Transactions on Signal Processing</i> , 2007 , 55, 3596-3605	4.8	32
136	A Large-Deviation Analysis of the Maximum-Likelihood Learning of Markov Tree Structures. <i>IEEE Transactions on Information Theory</i> , 2011 , 57, 1714-1735	2.8	31
135	On phasor measurement unit placement against state and topology attacks 2013 ,		29
134	Probabilistic Forecasting of Real-Time LMP and Network Congestion. <i>IEEE Transactions on Power Systems</i> , 2016 , 1-1	7	28

133	Renewables and Storage in Distribution Systems: Centralized vs. Decentralized Integration. <i>IEEE Journal on Selected Areas in Communications</i> , 2016 , 34, 665-674	14.2	28
132	Hierarchical Multi-Area State Estimation via Sensitivity Function Exchanges. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 442-453	7	27
131	Minimal-Energy Driving Strategy for High-Speed Electric Train With Hybrid System Model. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2013 , 14, 1642-1653	6.1	27
130	Multi-scale stochastic optimization for Home Energy Management 2011 ,		27
129	Queuing Analysis in Multichannel Cognitive Spectrum Access: A Large Deviation Approach 2010 ,		27
128	PMU-Based Detection of Imbalance in Three-Phase Power Systems. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 1966-1976	7	25
127	Algorithmic Bidding for Virtual Trading in Electricity Markets. <i>IEEE Transactions on Power Systems</i> , 2019 , 34, 535-543	7	24
126	Energy-Aware Adaptive Routing for Large-Scale Ad Hoc Networks: Protocol and Performance Analysis. <i>IEEE Transactions on Mobile Computing</i> , 2007 , 6, 1048-1059	4.6	23
125	Semi-blind collision resolution in random access wireless ad hoc networks. <i>IEEE Transactions on Signal Processing</i> , 2000 , 48, 2910-2920	4.8	23
124	A Likelihood-Based Multiple Access for Estimation in Sensor Networks. <i>IEEE Transactions on Signal Processing</i> , 2007 , 55, 5155-5166	4.8	22
123	Distributed Demand and Response Algorithm for Optimizing Social-Welfare in Smart Grid 2012 ,		20
122	Optimal pricing for residential demand response: A stochastic optimization approach 2012 ,		20
121	Anonymous Networking with Minimum Latency in Multihop Networks. <i>Spt97</i> , 2008 ,		20
120	Interference-aware OFDMA resource allocation: A predictive approach 2008 ,		20
119	Joint channel and symbol estimation by oblique projections. <i>IEEE Transactions on Signal Processing</i> , 2001 , 49, 3074-3083	4.8	20
118	On the operation and value of storage in consumer demand response 2014 ,		19
117	Asymptotically Efficient Multichannel Estimation for Opportunistic Spectrum Access. <i>IEEE Transactions on Signal Processing</i> , 2012 , 60, 5347-5360	4.8	19
116	Cognitive Medium Access: A Protocol for Enhancing Coexistence in WLAN Bands 2007 ,		18

115	A wireless smart grid testbed in lab. <i>IEEE Wireless Communications</i> , 2012 , 19, 58-64	13.4	17
114	Detection of Information Flows. <i>IEEE Transactions on Information Theory</i> , 2008 , 54, 4925-4945	2.8	17
113	PMU-Based Detection of Voltage Imbalances with Tolerance Constraints. <i>IEEE Transactions on Power Delivery</i> , 2017 , 32, 484-494	4.3	16
112	Deadline scheduling for large scale charging of electric vehicles with renewable energy 2012 ,		16
111	Polytope Codes Against Adversaries in Networks. <i>IEEE Transactions on Information Theory</i> , 2014 , 60, 3308-3344	8.15	15
110	SCORE: Smart-Grid common open research emulator 2012 ,		15
109	Optimal pilot placement for channel tracking in OFDM		15
108	Deadline Scheduling as Restless Bandits. <i>IEEE Transactions on Automatic Control</i> , 2018 , 63, 2343-2358	5.9	14
107	Dynamic attacks on power systems economic dispatch 2014 ,		14
106	A Game-Theoretic Approach to Anonymous Networking. <i>IEEE/ACM Transactions on Networking</i> , 2012 , 20, 892-905	3.8	14
105	Betting on Gilbert-Elliot channels. <i>IEEE Transactions on Wireless Communications</i> , 2010 , 9, 723-733	9.6	14
104	Distributed Inference in the Presence of Byzantine Sensors 2006 ,		13
103	On Robust Tie-Line Scheduling in Multi-Area Power Systems. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 4144-4154	7	12
102	Sensor Configuration and Activation for Field Detection in Large Sensor Arrays. <i>IEEE Transactions on Signal Processing</i> , 2008 , 56, 447-463	4.8	12
101	Energy-efficient information retrieval for correlated source reconstruction in sensor networks. <i>IEEE Transactions on Wireless Communications</i> , 2007 , 6, 157-165	9.6	12
100	Receiver controlled medium access in multihop ad hoc networks with multipacket reception		12
99	Multi-Area Interchange Scheduling Under Uncertainty. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 1659-1669	7	11
98	The Embedding Capacity of Information Flows Under Renewal Traffic. <i>IEEE Transactions on Information Theory</i> , 2013 , 59, 1724-1739	2.8	11

97	Maximum Throughput Region of Multiuser Cognitive Access of Continuous Time Markovian Channels. <i>IEEE Journal on Selected Areas in Communications</i> , 2011 , 29, 1959-1969	14.2	11
96	Estimation After Parameter Selection: Performance Analysis and Estimation Methods. <i>IEEE Transactions on Signal Processing</i> , 2016 , 64, 5268-5281	4.8	11
95	Distributed Detection of Multi-Hop Information Flows With Fusion Capacity Constraints. <i>IEEE Transactions on Signal Processing</i> , 2010 , 58, 3373-3383	4.8	10
94	Multiuser cognitive access of continuous time Markov channels: Maximum throughput and effective bandwidth regions 2010 ,		9
93	Maximum Asymptotic Stable Throughput of Opportunistic Slotted ALOHA and Applications to CDMA Networks. <i>IEEE Transactions on Wireless Communications</i> , 2007 , 6, 1159-1163	9.6	9
92	Opportunistic ALOHA and cross layer design for sensor networks		9
91	Universal Data Anomaly Detection via Inverse Generative Adversary Network. <i>IEEE Signal Processing Letters</i> , 2020 , 27, 511-515	3.2	8
90	On the value of storage at consumer locations 2014 ,		8
89	Large scale charging of Electric Vehicles 2012 ,		8
88	A Cognitive Framework for Improving Coexistence Among Heterogeneous Wireless Networks 2008 ,		8
87	Blind decorrelating RAKE receivers for long-code WCDMA. <i>IEEE Transactions on Signal Processing</i> , 2003 , 51, 1642-1655	4.8	8
86	Fast Probabilistic Hosting Capacity Analysis for Active Distribution Systems. <i>IEEE Transactions on Smart Grid</i> , 2021 , 12, 2000-2012	10.7	8
85	Voltage Instability Prediction Using a Deep Recurrent Neural Network. <i>IEEE Transactions on Power Systems</i> , 2021 , 36, 17-27	7	8
84	Deadline scheduling as restless bandits 2016 ,		7
83	Joint frequency and phasor estimation in unbalanced three-phase power systems 2014 ,		7
82	Minimax Quantization for Distributed Maximum Likelihood Estimation		7
81	Detection of Gauss-Markov Random Field on Nearest-Neighbor Graph 2007 ,		7
80	Distributed Learning in Wireless Sensor Networks 185-214		7

79	Topology identification in smart grid with limited measurements via convex optimization 2014,		6
78	The Cram�-Rao bound for estimation-after-selection 2014,		6
77	Forecasting real-time locational marginal price: A state space approach 2013,		6
76	On the Error Exponent and the Use of LDPC Codes for Cooperative Sensor Networks With Misinformed Nodes. <i>IEEE Transactions on Information Theory</i> , 2007 , 53, 3265-3274	2.8	6
75	Packet Scheduling Against Stepping-Stone Attacks with Chaff 2006,		6
74	Integrated Mobile and Static Sensing for Target Tracking 2007,		6
73	Distributed Statistical Inference using Type Based Random Access over Multi-access Fading Channels 2006,		6
72	A Large Deviation Analysis of Detection Over Multi-Access Channels with Random Number of Sensors		6
71	A sensing-based cognitive coexistence method for interfering infrastructure and ad hoc systems. <i>Wireless Communications and Mobile Computing</i> , 2010 , 10, 16-30	1.9	5
70	Good-Turing estimation of the number of operating sensors: a large deviations analysis		5
69	Domains of attraction of Shalvi-Weinstein receivers. <i>IEEE Transactions on Signal Processing</i> , 2001 , 49, 1397-1408	4.8	5
68	On the Dynamics of Distributed Energy Adoption: Equilibrium, Stability, and Limiting Capacity. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 102-114	5.9	5
67	Retail pricing for stochastic demand with unknown parameters: An online machine learning approach 2013,		4
66	Stochastic Interchange Scheduling in the Real-Time Electricity Market. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 2017-2027	7	4
65	Multi-channel opportunistic spectrum access in unslotted primary systems with unknown models 2011,		4
64	Distributed Estimation Via Random Access. <i>IEEE Transactions on Information Theory</i> , 2008 , 54, 3175-3181	2.8	4
63	Cross-Layer Design of Opportunistic Spectrum Access in the Presence of Sensing Error 2006,		4
62	Detection in Sensor Networks	117-148	4

61	Tracking of fast-fading channels in long-code CDMA. <i>IEEE Transactions on Signal Processing</i> , 2004 , 52, 786-795	4.8	4
60	Risk-Sensitive Security-Constrained Economic Dispatch via Critical Region Exploration 2019 ,		4
59	Pricing Multi-period Dispatch Under Uncertainty 2018 ,		4
58	Pricing Multi-Interval Dispatch Under Uncertainty Part I: Dispatch-Following Incentives. <i>IEEE Transactions on Power Systems</i> , 2021 , 36, 3865-3877	7	4
57	Generalized Coordinated Transaction Scheduling: A Market Approach to Seamless Interfaces. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 4683-4693	7	3
56	On the Efficiency of Connection ChargesPart II: Integration of Distributed Energy Resources. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 3834-3844	7	3
55	Distributed Software Emulator for Cyber-Physical Analysis in Smart Grid. <i>IEEE Transactions on Emerging Topics in Computing</i> , 2017 , 5, 506-517	4.1	3
54	Renewable in distribution networks: Centralized vs. decentralized integration 2015 ,		3
53	Piecewise affine dispatch policies for economic dispatch under uncertainty 2014 ,		3
52	Sensing and Communication Tradeoff for Cognitive Access of Continues-Time Markov Channels 2010 ,		3
51	On security-aware transmission scheduling. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , 2008 ,	1.6	3
50	Distributed Detection of Information Flows with Side-Information. <i>Conference Record of the Asilomar Conference on Signals, Systems and Computers</i> , 2007 ,	0.3	3
49	Time-reversal space-time coding for doubly-selective channels 2006 ,		3
48	Training placement for tracking fading channels 2002 ,		3
47	A projection-based semi-blind channel estimation for long-code WCDMA 2002 ,		3
46	Optimal Eco-driving Control of Autonomous and Electric Trucks in Adaptation to Highway Topography: Energy Minimization and Battery Life Extension. <i>IEEE Transactions on Transportation Electrification</i> , 2022 , 1-1	7.6	3
45	State Estimation in Smart Distribution Systems with Deep Generative Adversary Networks 2019 ,		3
44	Application Dependent Shortest Path Routing in Ad-Hoc Sensor Networks277-309		3

43	On the Efficiency of Connection Charges Part I: A Stochastic Framework. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 3822-3833	7	2
42	Demand response via large scale charging of electric vehicles 2016 ,		2
41	Maximum Likelihood Fusion of Stochastic Maps. <i>IEEE Transactions on Signal Processing</i> , 2014 , 62, 2090-2099	1	2
40	On topology attack of a smart grid 2013 ,		2
39	Low-complexity distributed spectrum sharing among multiple cognitive users 2010 ,		2
38	Moment Estimation and Dithered Quantization. <i>IEEE Signal Processing Letters</i> , 2006 , 13, 752-755	3.2	2
37	Cognitive Medium Access in WLAN Bands: A Real-Time Testbed. <i>Conference Record of the Asilomar Conference on Signals, Systems and Computers</i> , 2007 ,	0.3	2
36	Using queue statistics in beamforming for ALOHA		2
35	Sensitivity and Coding of Opportunistic ALOHA in Sensor Networks with Mobile Access. <i>Journal of Signal Processing Systems</i> , 2005 , 41, 329-344		2
34	Channel estimation and equalization with block interleavers		2
33	Optimal placement of training for channel estimation and tracking		2
32	A Scenario-oriented Approach for Energy-Reserve Joint Procurement and Pricing 2021 ,		2
31	In-Network Information Processing in Wireless Sensor Networks43-67		2
30	Adaptive Subband Compression for Streaming of Continuous Point-on-Wave and PMU Data. <i>IEEE Transactions on Power Systems</i> , 2021 , 1-1	7	2
29	Asymptotically Optimal Lagrangian Priority Policy for Deadline Scheduling with Processing Rate Limits. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	2
28	Data-Centric and Cooperative MAC Protocols for Sensor Networks311-348		2
27	State and Topology Estimation for Unobservable Distribution Systems using Deep Neural Networks. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022 , 1-1	5.2	2
26	Monitoring for Power-Line Change and Outage Detection in Smart Grid via the Alternating Direction Method of Multipliers 2014 ,		1

25	Construct data integrity attacks against real-time electrical market in Smart Grid 2015 ,	1
24	On the nonlinearity effects on malicious data attack on power system 2012 ,	1
23	A distributed scheme for detection of information flows 2008 ,	1
22	Sensor-fusion center communication over multiaccess fading channels	1
21	Capacity of cooperative sensor networks with sensor errors	1
20	A Cross-Layer Approach to Cognitive MAC for Spectrum Agility	1
19	Energy efficient adaptive routing for ad hoc networks with time-varying heterogeneous traffic	1
18	Stability of slotted ALOHA with spatial diversity	1
17	On the MAC for optimal information retrieval pattern in sensor networks with mobile access	1
16	Multipath Delay Estimation for Frequency Hopping Systems. <i>Journal of Signal Processing Systems</i> , 2002 , 30, 163-178	1
15	Exploiting protocol information for transmission over unknown fading channels 2003 ,	1
14	Pricing Energy Storage in Real-time Market 2021 ,	1
13	Information-Theoretic Bounds on Sensor Network Performance7-41	1
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9	On Net Energy Metering X: Optimal Prosumer Decisions, Social Welfare, and Cross-Subsidies. <i>IEEE Transactions on Smart Grid</i> , 2022 , 1-1	10.7 0
8	Distributed Learning and Multiaccess of On-Off Channels. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2013 , 7, 837-845	7.5

7	A Scenario-oriented Approach to Energy-Reserve Joint Procurement and Pricing. <i>IEEE Transactions on Power Systems</i> , 2022 , 1-1	7
6	A Deep Learning Approach to Anomaly Sequence Detection for High-Resolution Monitoring of Power Systems. <i>IEEE Transactions on Power Systems</i> , 2022 , 1-1	7
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