

Lang Tong

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/7139956/lang-tong-publications-by-year.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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
167	A Scenario-oriented Approach to Energy-Reserve Joint Procurement and Pricing. <i>IEEE Transactions on Power Systems</i> , 2022 , 1-1	7	
166	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
165	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	
164	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
163	Coordinated Transaction Scheduling in Multi-Area Electricity Markets: Equilibrium and Learning. <i>IEEE Transactions on Power Systems</i> , 2022 , 1-1	7	
162	A Scenario-oriented Approach for Energy-Reserve Joint Procurement and Pricing 2021 ,		2
161	Pricing Energy Storage in Real-time Market 2021 ,		1
160	Fast Probabilistic Hosting Capacity Analysis for Active Distribution Systems. <i>IEEE Transactions on Smart Grid</i> , 2021 , 12, 2000-2012	10.7	8
159	Voltage Instability Prediction Using a Deep Recurrent Neural Network. <i>IEEE Transactions on Power Systems</i> , 2021 , 36, 17-27	7	8
158	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
157	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
156	Pricing Multi-Interval Dispatch Under Uncertainty Part I: Dispatch-Following Incentives. <i>IEEE Transactions on Power Systems</i> , 2021 , 36, 3865-3877	7	4
155	Universal Data Anomaly Detection via Inverse Generative Adversary Network. <i>IEEE Signal Processing Letters</i> , 2020 , 27, 511-515	3.2	8
154	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
153	Algorithmic Bidding for Virtual Trading in Electricity Markets. <i>IEEE Transactions on Power Systems</i> , 2019 , 34, 535-543	7	24
152	Risk-Sensitive Security-Constrained Economic Dispatch via Critical Region Exploration 2019 ,		4

151	State Estimation in Smart Distribution Systems with Deep Generative Adversary Networks 2019 ,		3
150	Generalized Coordinated Transaction Scheduling: A Market Approach to Seamless Interfaces. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 4683-4693	7	3
149	On the Efficiency of Connection ChargesPart I: A Stochastic Framework. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 3822-3833	7	2
148	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
147	On Robust Tie-Line Scheduling in Multi-Area Power Systems. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 4144-4154	7	12
146	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
145	Multi-Area Interchange Scheduling Under Uncertainty. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 1659-1669	7	11
144	Deadline Scheduling as Restless Bandits. <i>IEEE Transactions on Automatic Control</i> , 2018 , 63, 2343-2358	5.9	14
143	Pricing Multi-period Dispatch Under Uncertainty 2018 ,		4
142	Hierarchical Multi-Area State Estimation via Sensitivity Function Exchanges. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 442-453	7	27
141	Coordinated Multi-Area Economic Dispatch via Critical Region Projection. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 3736-3746	7	33
140	PMU-Based Detection of Voltage Imbalances with Tolerance Constraints. <i>IEEE Transactions on Power Delivery</i> , 2017 , 32, 484-494	4.3	16
139	Stochastic Interchange Scheduling in the Real-Time Electricity Market. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 2017-2027	7	4
138	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
137	Probabilistic Forecasting of Real-Time LMP and Network Congestion. <i>IEEE Transactions on Power Systems</i> , 2016 , 1-1	7	28
136	Demand response via large scale charging of electric vehicles 2016 ,		2
135	Deadline scheduling as restless bandits 2016 ,		7
134	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

133	Estimation After Parameter Selection: Performance Analysis and Estimation Methods. <i>IEEE Transactions on Signal Processing</i> , 2016 , 64, 5268-5281	4.8	11
132	Dynamic Scheduling for Charging Electric Vehicles: A Priority Rule. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 4094-4099	5.9	38
131	PMU-Based Detection of Imbalance in Three-Phase Power Systems. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 1966-1976	7	25
130	Construct data integrity attacks against real-time electrical market in Smart Grid 2015 ,		1
129	Renewable in distribution networks: Centralized vs. decentralized integration 2015 ,		3
128	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
127	Impact of Data Quality on Real-Time Locational Marginal Price. <i>IEEE Transactions on Power Systems</i> , 2014 , 29, 627-636	7	75
126	Polytope Codes Against Adversaries in Networks. <i>IEEE Transactions on Information Theory</i> , 2014 , 60, 3308-3344	15	
125	Maximum Likelihood Fusion of Stochastic Maps. <i>IEEE Transactions on Signal Processing</i> , 2014 , 62, 2090-2099	19	2
124	Topology identification in smart grid with limited measurements via convex optimization 2014 ,		6
123	The Cram�r-Rao bound for estimation-after-selection 2014 ,		6
122	Monitoring for Power-Line Change and Outage Detection in Smart Grid via the Alternating Direction Method of Multipliers 2014 ,		1
121	Joint frequency and phasor estimation in unbalanced three-phase power systems 2014 ,		7
120	Piecewise affine dispatch policies for economic dispatch under uncertainty 2014 ,		3
119	On the value of storage at consumer locations 2014 ,		8
118	Dynamic attacks on power systems economic dispatch 2014 ,		14
117	On the operation and value of storage in consumer demand response 2014 ,		19
116	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

115	On phasor measurement unit placement against state and topology attacks 2013 ,		29
114	Joint Frequency and Phasor Estimation Under the KCL Constraint. <i>IEEE Signal Processing Letters</i> , 2013 , 20, 575-578	3.2	43
113	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
112	Retail pricing for stochastic demand with unknown parameters: An online machine learning approach 2013 ,		4
111	On topology attack of a smart grid 2013 ,		2
110	Modeling and Stochastic Control for Home Energy Management. <i>IEEE Transactions on Smart Grid</i> , 2013 , 4, 2244-2255	10.7	113
109	Distributed Learning and Multiaccess of On-Off Channels. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2013 , 7, 837-845	7.5	
108	The Embedding Capacity of Information Flows Under Renewal Traffic. <i>IEEE Transactions on Information Theory</i> , 2013 , 59, 1724-1739	2.8	11
107	Forecasting real-time locational marginal price: A state space approach 2013 ,		6
106	A Characterization of Delay Performance of Cognitive Medium Access. <i>IEEE Transactions on Wireless Communications</i> , 2012 , 11, 800-809	9.6	35
105	Deadline scheduling for large scale charging of electric vehicles with renewable energy 2012 ,		16
104	SCORE: Smart-Grid common open research emulator 2012 ,		15
103	iEMS for large scale charging of electric vehicles: Architecture and optimal online scheduling 2012 ,		50
102	A wireless smart grid testbed in lab. <i>IEEE Wireless Communications</i> , 2012 , 19, 58-64	13.4	17
101	A Game-Theoretic Approach to Anonymous Networking. <i>IEEE/ACM Transactions on Networking</i> , 2012 , 20, 892-905	3.8	14
100	Impacts of Malicious Data on Real-Time Price of Electricity Market Operations 2012 ,		33
99	On the nonlinearity effects on malicious data attack on power system 2012 ,		1
98	Distributed Demand and Response Algorithm for Optimizing Social-Welfare in Smart Grid 2012 ,		20

97	Optimal pricing for residential demand response: A stochastic optimization approach 2012 ,		20
96	Asymptotically Efficient Multichannel Estimation for Opportunistic Spectrum Access. <i>IEEE Transactions on Signal Processing</i> , 2012 , 60, 5347-5360	4.8	19
95	Large scale charging of Electric Vehicles 2012 ,		8
94	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
93	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
92	Multi-scale stochastic optimization for Home Energy Management 2011 ,		27
91	Multi-channel opportunistic spectrum access in unslotted primary systems with unknown models 2011 ,		4
90	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
89	Malicious data attack on real-time electricity market 2011 ,		41
88	Sensing and Communication Tradeoff for Cognitive Access of Continues-Time Markov Channels 2010 ,		3
87	Queuing Analysis in Multichannel Cognitive Spectrum Access: A Large Deviation Approach 2010 ,		27
86	Multiuser cognitive access of continuous time Markov channels: Maximum throughput and effective bandwidth regions 2010 ,		9
85	Malicious Data Attacks on Smart Grid State Estimation: Attack Strategies and Countermeasures 2010 ,		197
84	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
83	Limiting false data attacks on power system state estimation 2010 ,		88
82	Betting on Gilbert-Elliot channels. <i>IEEE Transactions on Wireless Communications</i> , 2010 , 9, 723-733	9.6	14
81	Low-complexity distributed spectrum sharing among multiple cognitive users 2010 ,		2
80	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

79	Detection of Gaussian Markov Random Fields With Nearest-Neighbor Dependency. <i>IEEE Transactions on Information Theory</i> , 2009 , 55, 816-827	2.8	34
78	Distributed Detection in the Presence of Byzantine Attacks. <i>IEEE Transactions on Signal Processing</i> , 2009 , 57, 16-29	4.8	117
77	Anonymous Networking Amidst Eavesdroppers. <i>IEEE Transactions on Information Theory</i> , 2008 , 54, 2770-2884	2.8	44
76	Distributed Estimation Via Random Access. <i>IEEE Transactions on Information Theory</i> , 2008 , 54, 3175-3181	2.8	4
75	Detection of Information Flows. <i>IEEE Transactions on Information Theory</i> , 2008 , 54, 4925-4945	2.8	17
74	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
73	Opportunistic Spectrum Access via Periodic Channel Sensing. <i>IEEE Transactions on Signal Processing</i> , 2008 , 56, 785-796	4.8	238
72	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
71	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
70	Anonymous Networking with Minimum Latency in Multihop Networks. <i>Springer</i> , 2008 ,		20
69	A distributed scheme for detection of information flows 2008 ,		1
68	A Cognitive Framework for Improving Coexistence Among Heterogeneous Wireless Networks 2008 ,		8
67	On security-aware transmission scheduling. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , 2008 ,	1.6	3
66	Interference-aware OFDMA resource allocation: A predictive approach 2008 ,		20
65	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
64	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
63	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
62	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

61	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
60	A Likelihood-Based Multiple Access for Estimation in Sensor Networks. <i>IEEE Transactions on Signal Processing</i> , 2007 , 55, 5155-5166	4.8	22
59	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
58	Detecting Encrypted Stepping-Stone Connections. <i>IEEE Transactions on Signal Processing</i> , 2007 , 55, 1612-1623	4.8	44
57	Integrated Mobile and Static Sensing for Target Tracking 2007 ,		6
56	Detection of Gauss-Markov Random Field on Nearest-Neighbor Graph 2007 ,		7
55	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
54	Quantization for Maximin ARE in Distributed Estimation. <i>IEEE Transactions on Signal Processing</i> , 2007 , 55, 3596-3605	4.8	32
53	Cognitive Medium Access: A Protocol for Enhancing Coexistence in WLAN Bands 2007 ,		18
52	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
51	Sensor Networks With Mobile Access: Energy and Capacity Considerations. <i>IEEE Transactions on Communications</i> , 2006 , 54, 2033-2044	6.9	35
50	Moment Estimation and Dithered Quantization. <i>IEEE Signal Processing Letters</i> , 2006 , 13, 752-755	3.2	2
49	Packet Scheduling Against Stepping-Stone Attacks with Chaff 2006 ,		6
48	Cross-Layer Design of Opportunistic Spectrum Access in the Presence of Sensing Error 2006 ,		4
47	A Measurement-Based Model for Dynamic Spectrum Access in WLAN Channels 2006 ,		113
46	Distributed Inference in the Presence of Byzantine Sensors 2006 ,		13
45	Distributed Statistical Inference using Type Based Random Access over Multi-access Fading Channels 2006 ,		6
44	Time-reversal space-time coding for doubly-selective channels 2006 ,		3

43	Sensitivity and Coding of Opportunistic ALOHA in Sensor Networks with Mobile Access. <i>Journal of Signal Processing Systems</i> , 2005 , 41, 329-344		2
42	Signal processing in random access. <i>IEEE Signal Processing Magazine</i> , 2004 , 21, 29-39	9.4	73
41	Tracking of fast-fading channels in long-code CDMA. <i>IEEE Transactions on Signal Processing</i> , 2004 , 52, 786-795	4.8	4
40	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
39	Blind decorrelating RAKE receivers for long-code WCDMA. <i>IEEE Transactions on Signal Processing</i> , 2003 , 51, 1642-1655	4.8	8
38	Exploiting protocol information for transmission over unknown fading channels 2003 ,		1
37	Multipath Delay Estimation for Frequency Hopping Systems. <i>Journal of Signal Processing Systems</i> , 2002 , 30, 163-178		1
36	Training placement for tracking fading channels 2002 ,		3
35	A projection-based semi-blind channel estimation for long-code WCDMA 2002 ,		3
34	Optimal design and placement of pilot symbols for channel estimation. <i>IEEE Transactions on Signal Processing</i> , 2002 , 50, 3055-3069	4.8	105
33	Domains of attraction of Shalvi-Weinstein receivers. <i>IEEE Transactions on Signal Processing</i> , 2001 , 49, 1397-1408	4.8	5
32	Joint channel and symbol estimation by oblique projections. <i>IEEE Transactions on Signal Processing</i> , 2001 , 49, 3074-3083	4.8	20
31	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
30	Minimax Quantization for Distributed Maximum Likelihood Estimation		7
29	Detection in Sensor Networks 117-148		4
28	Sensor-fusion center communication over multiaccess fading channels		1
27	Capacity of cooperative sensor networks with sensor errors		1
26	A Cross-Layer Approach to Cognitive MAC for Spectrum Agility		1

25	Energy efficient adaptive routing for ad hoc networks with time-varying heterogeneous traffic	1
24	Decentralized cognitive mac for dynamic spectrum access	73
23	A Large Deviation Analysis of Detection Over Multi-Access Channels with Random Number of Sensors	6
22	Stability of slotted ALOHA with spatial diversity	1
21	Opportunistic ALOHA and cross layer design for sensor networks	9
20	Using queue statistics in beamforming for ALOHA	2
19	On the MAC for optimal information retrieval pattern in sensor networks with mobile access	1
18	Good-Turing estimation of the number of operating sensors: a large deviations analysis	5
17	Sensor networks with mobile agents	114
16	Channel estimation and equalization with block interleavers	2
15	Optimal pilot placement for channel tracking in OFDM	15
14	Optimal placement of training for channel estimation and tracking	2
13	Receiver controlled medium access in multihop ad hoc networks with multipacket reception	12
12	Information-Theoretic Bounds on Sensor Network Performance7-41	1
11	In-Network Information Processing in Wireless Sensor Networks43-67	2
10	Game Theoretic Activation and Transmission Scheduling in Unattended Ground Sensor Networks: A Correlated Equilibrium Approach349-387	1
9	Distributed Estimation under Bandwidth and Energy Constraints149-184	1
8	Source reconstruction via mobile agents in sensor networks: throughput-distortion characteristics	1

- 7 Application Dependent Shortest Path Routing in Ad-Hoc Sensor Networks277-309 3
- 6 Data-Centric and Cooperative MAC Protocols for Sensor Networks311-348 2
- 5 Distributed Learning in Wireless Sensor Networks185-214 7
- 4 Randomized Cooperative Transmission in Large-Scale Sensor Networks251-275
- 3 The Sensing Capacity of Sensor Networks69-91
- 2 Law of Sensor Network Lifetime and Its Applications93-116
- 1 Graphical Models and Fusion in Sensor Networks215-249