Wee Peng Tay

List of Publications by Year
in descending order

149 papers	2,640 citations	279798 23 h-index	243625 44 g-index
150 all docs	150 docs citations	150 times ranked	2182 citing authors

#	Article	IF	Citations
1	Resilience-Oriented Control for Cyber-Physical Hybrid Energy Storage Systems Using a Semiconsensus Scheme: Design and Practice. IEEE Transactions on Industrial Electronics, 2023, 70, 2508-2519.	7.9	5
2	Task Recommendation in Crowdsourcing Based on Learning Preferences and Reliabilities. IEEE Transactions on Services Computing, 2022, 15, 1785-1798.	4.6	8
3	An Unsupervised Bayesian Neural Network for Truth Discovery in Social Networks. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 5182-5195.	5.7	7
4	Unlimited Dynamic Range Signal Recovery for Folded Graph Signals. Signal Processing, 2022, , 108574.	3.7	1
5	Signal Processing on Simplicial Complexes With Vertex Signals. IEEE Access, 2022, 10, 41889-41901.	4.2	3
6	Preserving Trajectory Privacy in Driving Data Release. , 2022, , .		0
7	Wide-Sense Stationarity and Spectral Estimation for Generalized Graph Signal. , 2022, , .		0
8	Wide-Sense Stationarity in Generalized Graph Signal Processing. IEEE Transactions on Signal Processing, 2022, 70, 3414-3428.	5.3	2
9	Arbitrarily Strong Utility-Privacy Tradeoff in Multi-Agent Systems. IEEE Transactions on Information Forensics and Security, 2021, 16, 671-684.	6.9	10
10	Asymptotically Optimal Sampling Policy for Quickest Change Detection With Observation-Switching Cost. IEEE Transactions on Signal Processing, 2021, 69, 1332-1346.	5.3	2
11	5G Positioning Using Code-Phase Timing Recovery. , 2021, , .		7
12	Anchor-Free Multi-Level Self-Localization in Ad-hoc Networks. , 2021, , .		1
13	Learning On Heterogeneous Graphs Using High-Order Relations. , 2021, , .		1
14	Signal Processing with a Distribution of Graph Operators. , 2021, , .		2
15	Birds Eye View Look-Up Table Estimation with Semantic Segmentation. Applied Sciences (Switzerland), 2021, 11, 8047.	2.5	1
16	Cost-Efficient RIS-Aided Channel Estimation via Rank-One Matrix Factorization. IEEE Wireless Communications Letters, 2021, 10, 2562-2566.	5.0	7
17	Privacy-Preserving Distributed Projection LMS for Linear Multitask Networks. IEEE Transactions on Signal Processing, 2021, 69, 6530-6545.	5.3	1
18	Quasi-Synchronization of Heterogeneous Networks With a Generalized Markovian Topology and Event-Triggered Communication. IEEE Transactions on Cybernetics, 2020, 50, 4200-4213.	9.5	28

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19	Decentralized Detection With Robust Information Privacy Protection. IEEE Transactions on Information Forensics and Security, 2020, 15, 85-99.	6.9	8
20	Network topology inference using information cascades with limited statistical knowledge. Information and Inference, 2020, 9, 327-360.	1.6	2
21	Compressive Privacy for a Linear Dynamical System. IEEE Transactions on Information Forensics and Security, 2020, 15, 895-910.	6.9	11
22	On the Relationship Between Inference and Data Privacy in Decentralized IoT Networks. IEEE Transactions on Information Forensics and Security, 2020, 15, 852-866.	6.9	36
23	Maximum Privacy under Perfect Utility in Sensor Networks. , 2020, , .		0
24	Resilient Multitask Distributed Adaptation Over Networks With Noisy Exchanges. , 2020, , .		0
25	Privacy-Aware Quickest Change Detection. , 2020, , .		3
26	GFCN: A New Graph Convolutional Network Based on Parallel Flows. , 2020, , .		6
27	Data-driven Privacy With Domain Regularization. , 2020, , .		1
28	UWB/LiDAR Fusion For Cooperative Range-Only SLAM. , 2019, , .		52
29	Using Social Network Information in Community-Based Bayesian Truth Discovery. IEEE Transactions on Signal and Information Processing Over Networks, 2019, 5, 525-537.	2.8	11
30	Quickest Change Detection in the Presence of a Nuisance Change. IEEE Transactions on Signal Processing, 2019, 67, 5281-5296.	5.3	10
31	A Privacy-preserving Diffusion Strategy over Multitask Networks. , 2019, , .		3
32	Asymptotically Optimal Quickest Change Detection under a Nuisance Change. , 2019, , .		3
33	A survey on 5G massive MIMO localization. , 2019, 94, 21-28.		74
34	On the Properties of Gromov Matrices and Their Applications in Network Inference. IEEE Transactions on Signal Processing, 2019, 67, 2624-2638.	5.3	8
35	Optimal Power Allocation for Diffusion-Type Sensor Networks With Wireless Information and Power Transfer. IEEE Access, 2019, 7, 32408-32422.	4.2	3
36	Orthogonal Projection in Linear Bandits. , 2019, , .		1

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37	On Folded Graph Signals. , 2019, , .		7
38	A Hilbert Space Theory of Generalized Graph Signal Processing. IEEE Transactions on Signal Processing, 2019, 67, 6188-6203.	5.3	14
39	Privacy-Aware Sensor Network Via Multilayer Nonlinear Processing. IEEE Internet of Things Journal, 2019, 6, 10834-10845.	8.7	6
40	Iterative expectation maximization for reliable social sensing with information flows. Information Sciences, 2019, 501, 621-634.	6.9	6
41	LaIF: A Lane-Level Self-Positioning Scheme for Vehicles in GNSS-Denied Environments. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 2944-2961.	8.0	18
42	Sequential Multi-Class Labeling in Crowdsourcing. IEEE Transactions on Knowledge and Data Engineering, 2019, 31, 2190-2199.	5.7	7
43	A Binning Approach to Quickest Change Detection With Unknown Post-Change Distribution. IEEE Transactions on Signal Processing, 2019, 67, 609-621.	5.3	23
44	Virtual Multiantenna Array for Estimating the Direction of a Transmitter: System, Bounds, and Experimental Results. IEEE Transactions on Vehicular Technology, 2018, 67, 1510-1520.	6.3	7
45	Toward Information Privacy for the Internet of Things: A Nonparametric Learning Approach. IEEE Transactions on Signal Processing, 2018, 66, 1734-1747.	5.3	22
46	GENERALIZED GRAPH SIGNAL PROCESSING. , 2018, , .		2
47	Privacy-Aware Kalman Filtering. , 2018, , .		16
48	PRESERVING PARAMETER PRIVACY IN SENSOR NETWORKS. , 2018, , .		7
49	Properties and Applications of Gromov Matrices In Network Inference. , 2018, , .		1
50	Hidden Markov Model for Masquerade Detection Based on Sequence Alignment. , 2018, , .		2
51	An Event-Based Diffusion LMS Strategy. , 2018, , .		0
52	Quickest Change Detection Under a Nuisance Change. , 2018, , .		5
53	Learning Correlation Graph and Anomalous Employee Behavior for Insider Threat Detection. , 2018, , .		1
54	Estimating Infection Sources in Networks Using Partial Timestamps. IEEE Transactions on Information Forensics and Security, 2018, 13, 3035-3049.	6.9	30

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55	A Dynamic Bayesian Nonparametric Model for Blind Calibration of Sensor Networks. IEEE Internet of Things Journal, 2018, 5, 3942-3953.	8.7	15
56	Non-Bayesian Social Learning with Observation Reuse and Soft Switching. ACM Transactions on Sensor Networks, 2018, 14, 1-21.	3.6	24
57	An Algorithmic Framework for Estimating Rumor Sources With Different Start Times. IEEE Transactions on Signal Processing, 2017, 65, 2517-2530.	5.3	37
58	A Multitask Diffusion Strategy With Optimized Inter-cluster Cooperation. IEEE Journal on Selected Topics in Signal Processing, 2017, 11, 504-517.	10.8	8
59	On the Universality of Jordan Centers for Estimating Infection Sources in Tree Networks. IEEE Transactions on Information Theory, 2017, 63, 4634-4657.	2.4	11
60	Introduction to the Issue on Distributed Information Processing in Social Networks. IEEE Transactions on Signal and Information Processing Over Networks, 2017, 3, 219-221.	2.8	1
61	A dynamic Bayesian nonparametric model for blind calibration of sensor networks. , 2017, , .		5
62	Multilayer sensor network for information privacy. , 2017, , .		12
63	System Cost Minimization in Cloud RAN With Limited Fronthaul Capacity. IEEE Transactions on Wireless Communications, 2017, 16, 3371-3384.	9.2	88
64	Opinion diversity and community formation in adaptive networks. Chaos, 2017, 27, 103115.	2.5	17
65	Sequential multi-class labeling in crowdsourcing. , 2017, , .		5
66	Inferring network topology from information cascades. , 2017, , .		0
67	Quickest change detection with unknown post-change distribution. , 2017, , .		19
68	A particle filter for vehicle tracking with lane level accuracy under GNSS-denied environments. , 2017, , .		4
69	Inference and data privacy in IoT networks. , 2017, , .		10
70	Optimal sampling policy for quickest change detection. , 2017, , .		6
71	Multiple sources identification in networks with partial timestamps. , 2017, , .		3
72	Non-Bayesian social learning with observation reuse and soft switching. , 2017, , .		0

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73	Grid-based belief propagation. , 2017, , .		0
74	Robust decentralized localization in impulsive noise. , 2017, , .		0
75	A particle filter for sequential infection source estimation. , 2017, , .		7
76	Opportunistic spectrum access with temporal-spatial reuse in cognitive radio networks. , 2016, , .		4
77	Privacy-aware decentralized detection using linear precoding. , 2016, , .		13
78	Receiver Tracking Using Signals of Opportunity from Asynchronous RF Beacons in GNSS-Denied Environments. , 2016, , .		2
79	Virtual Multi-Antenna Array for Estimating the Angle-of-Arrival of a RF Transmitter. , 2016, , .		6
80	Proof of concept study using DSRC, IMU and map fusion for vehicle localization in GNSS-denied environments. , 2016, , .		9
81	Infection Spreading and Source Identification: A Hide and Seek Game. IEEE Transactions on Signal Processing, 2016, 64, 4228-4243.	5.3	28
82	Identifying rumor sources with different start times. , 2016, , .		3
83	Anchor-Aided Joint Localization and Synchronization Using SOOP: Theory and Experiments. IEEE Transactions on Wireless Communications, 2016, 15, 7670-7685.	9.2	22
84	Joint resource segmentation and transmission rate adaptation in Cloud RAN with Caching as a Service. , 2016, , .		11
85	Privacy-preserving nonparametric decentralized detection. , 2016, , .		18
86	Synchronization of pinning networks with Markovian switching topologies and event-triggered communication. , 2016, , .		0
87	Multitask diffusion LMS with optimized inter-cluster cooperation. , 2016, , .		5
88	TDOA-FDOA based multiple target detection and tracking in the presence of measurement errors and biases. , 2016, , .		6
89	Posterior CramÃ©r-Rao lower bound for mobile emitter tracking based on a TDOA-FDOA multi-measurement model. , 2016, , .		0
90	Estimating the number of infection sources in a tree. , 2016, , .		6

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91	Learning Temporal–Spatial Spectrum Reuse. IEEE Transactions on Communications, 2016, 64, 3092-3103.	7.8	22
92	Optimal wireless power transfer and harvested power allocation for diffusion LMS in wireless sensor networks. , 2015, , .		3
93	Network infection source identification under the SIRI model. , 2015, , .		6
94	Joint scheduling and localization in UWB networks. , 2015, , .		3
95	An energy-efficient diffusion strategy over adaptive networks. , 2015, , .		3
96	Distributed Localization of a RF Target in NLOS Environments. IEEE Journal on Selected Areas in Communications, 2015, 33, 1317-1330.	14.0	26
97	Cross-Layer Resource Allocation With Elastic Service Scaling in Cloud Radio Access Network. IEEE Transactions on Wireless Communications, 2015, 14, 5068-5081.	9.2	150
98	Towards system cost minimization in cloud radio access network. , 2015, , .		6
99	Periodic RF transmitter geolocation using a mobile receiver. , 2015, , .		8
100	On the universality of the Jordan center for estimating the rumor source in a social network. , 2015, , .		6
101	RF transmitter geolocation based on signal periodicity: Concept and implementation. , 2015, , .		9
102	Rumor Spreading Maximization and Source Identification in a Social Network. , 2015, , .		3
103	Joint Navigation and Synchronization Using SOOP in GPS-Denied Environments: Algorithm and Empirical Study. , 2015, , .		3
104	Distributed Local Linear Parameter Estimation Using Gaussian SPAWN. IEEE Transactions on Signal Processing, 2015, 63, 244-257.	5.3	22
105	Whose Opinion to Follow in Multihypothesis Social Learning? A Large Deviations Perspective. IEEE Journal on Selected Topics in Signal Processing, 2015, 9, 344-359.	10.8	24
106	Multi-Hop Diffusion LMS for Energy-Constrained Distributed Estimation. IEEE Transactions on Signal Processing, 2015, 63, 4022-4036.	5.3	22
107	Robust Decentralized Detection and Social Learning in Tandem Networks. IEEE Transactions on Signal Processing, 2015, 63, 5019-5032.	5.3	30
108	Localization of a moving non-cooperative RF target in NLOS environment using RSS and AOA measurements. , 2015, , .		7

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109	Distributed Boundary Estimation for Spectrum Sensing in Cognitive Radio Networks. IEEE Journal on Selected Areas in Communications, 2014, 32, 1961-1973.	14.0	12
110	Distributed opportunistic spectrum access with spatial reuse in cognitive radio networks. , 2014, , .		2
111	Robust detection and social learning in tandem networks. , 2014, , .		1
112	Cross-layer resource allocation in cloud radio access network. , 2014, , .		12
113	An integer linear programming approach for a class of bilinear integer programs. Operations Research Letters, 2014, 42, 226-230.	0.7	1
114	How to Identify an Infection Source With Limited Observations. IEEE Journal on Selected Topics in Signal Processing, 2014, 8, 586-597.	10.8	98
115	Dynamic Request Redirection and Elastic Service Scaling in Cloud-Centric Media Networks. IEEE Transactions on Multimedia, 2014, 16, 1434-1445.	7.2	47
116	Modified CRLB for Cooperative Geolocation of Two Devices Using Signals of Opportunity. IEEE Transactions on Wireless Communications, 2014, 13, 3636-3649.	9.2	27
117	An Impulse Radio Ultrawideband System for Contactless Noninvasive Respiratory Monitoring. IEEE Transactions on Biomedical Engineering, 2013, 60, 1509-1517.	4.2	58
118	Interference Alignment in a Poisson Field of MIMO Femtocells. IEEE Transactions on Wireless Communications, 2013, 12, 2633-2645.	9.2	46
119	Estimating infection sources in a network with incomplete observations. , 2013, , .		15
120	Identifying Infection Sources and Regions in Large Networks. IEEE Transactions on Signal Processing, 2013, 61, 2850-2865.	5.3	155
121	Randomized Information Dissemination in Dynamic Environments. IEEE/ACM Transactions on Networking, 2013, 21, 681-691.	3.8	9
122	Finding an infection source under the SIS model. , 2013, , .		55
123	Distributed boundary estimation for spectrum sensing in cognitive radio networks. , 2013, , .		1
124	Distributed localization of an unknown target in NLOS environments. , 2013, , .		0
125	Fundamental limits for location and velocity estimation using asynchronous beacons. , 2013, , .		0
126	Cooperative and distributed localization for wireless sensor networks in multipath environments. , 2012, , .		13

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127	GPS-free Localization Using Asynchronous Beacons. , 2012, , .		2
128	Identifying multiple infection sources in a network. , 2012, , .		26
129	Identifying infection sources in large tree networks. , 2012, , .		17
130	A Bayesian nonparametric approach to tumor detection using UWB imaging. , 2012, , .		4
131	Extreme learning machines for intrusion detection. , 2012, , .		47
132	The Value of Feedback in Decentralized Detection. IEEE Transactions on Information Theory, 2012, 58, 7226-7239.	2.4	28
133	Cloud robotics: architecture, challenges and applications. IEEE Network, 2012, 26, 21-28.	6.9	394
134	Cooperative and distributed localization for wireless sensor networks in multipath environments. , 2011, , .		0
135	Randomized rumor spreading in non-static networks. , 2011, , .		3
136	The value of feedback for decentralized detection in large sensor networks. , 2011, , .		5
137	Randomized broadcast in dynamic network environments. , 2011, , .		3
138	Error exponents for decentralized detection in feedback architectures. , 2011, , .		1
139	Bayesian Detection in Bounded Height Tree Networks. IEEE Transactions on Signal Processing, 2009, 57, 4042-4051.	5.3	48
140	Data Fusion Trees for Detection: Does Architecture Matter?. IEEE Transactions on Information Theory, 2008, 54, 4155-4168.	2.4	62
141	On the Subexponential Decay of Detection Error Probabilities in Long Tandems. IEEE Transactions on Information Theory, 2008, 54, 4767-4771.	2.4	47
142	On the Impact of Node Failures and Unreliable Communications in Dense Sensor Networks. IEEE Transactions on Signal Processing, 2008, 56, 2535-2546.	5.3	43
143	Error Exponents for Decentralized Detection in Tree Networks. , 2008, , 73-92.		12
144	On the Sub-Exponential Decay of Detection Error Probabilities in Long Tandems. , 2007, , .		17

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145	Bayesian Detection in Bounded Height Tree Networks. , 2007, , .		21
146	Detection in Dense Wireless Sensor Networks. , 2007, , .		2
147	Asymptotic Performance of a Censoring Sensor Network. IEEE Transactions on Information Theory, 2007, 53, 4191-4209.	2.4	50
148	Asymptotically Optimal Distributed Censoring. , 2006, , .		0
149	Censoring Sensors: Asymptotics and the Value of Cooperation. , 2006, , .		5