

# Wen-An Zhang

## List of Publications by Year in descending order

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81  
papers

3,035  
citations

159585

30  
h-index

168389

53  
g-index

81  
all docs

81  
docs citations

81  
times ranked

1782  
citing authors

#	ARTICLE	IF	CITATIONS
1	An adaptive unscented Kalman filter approach to secure state estimation for wireless sensor networks. <i>Asian Journal of Control</i> , 2023, 25, 629-636.	3.0	8
2	Quasi- $\epsilon$ -min- $\epsilon$ -max MPC for visual servoing stabilization of omnidirectional wheeled mobile robots. <i>Asian Journal of Control</i> , 2023, 25, 1924-1938.	3.0	1
3	Policy-Based Deep Reinforcement Learning for Visual Servoing Control of Mobile Robots With Visibility Constraints. <i>IEEE Transactions on Industrial Electronics</i> , 2022, 69, 1898-1908.	7.9	28
4	Online Modeling of the CNC Engraving System With Dead-Zone Input Nonlinearity. <i>IEEE Transactions on Industrial Electronics</i> , 2022, 69, 774-782.	7.9	5
5	Training Deep Neural Network for Optimal Power Allocation in Islanded Microgrid Systems: A Distributed Learning-Based Approach. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2022, 33, 2057-2069.	11.3	20
6	CLAP: A Contract-Based Incentive Mechanism for Cooperative Localization Balancing Localization Accuracy and Location Privacy. <i>IEEE Internet of Things Journal</i> , 2022, 9, 6678-6687.	8.7	4
7	Equivalent-Input-Disturbance-Based Position Synchronization Control of Networked Multiaxis Motion System. <i>IEEE Transactions on Industrial Electronics</i> , 2022, 69, 8317-8324.	7.9	4
8	E <sup>2</sup> DNet: An Ensembling Deep Neural Network for Solving Nonconvex Economic Dispatch in Smart Grid. <i>IEEE Transactions on Industrial Informatics</i> , 2022, 18, 3066-3076.	11.3	11
9	Distributed Kalman-Like Filtering and Bad Data Detection in the Large-Scale Power System. <i>IEEE Transactions on Industrial Informatics</i> , 2022, 18, 5096-5104.	11.3	12
10	Adaptive distributed Kalman-like filter for power system with cyber attacks. <i>Automatica</i> , 2022, 137, 110091.	5.0	9
11	Synchronization tracking control of networked multi-axis motion systems: A cooperative distributed model predictive control approach. <i>Control Engineering Practice</i> , 2022, 126, 105233.	5.5	3
12	Contour Tracking Control of Networked Motion Control System Using Improved Equivalent-Input-Disturbance Approach. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 5155-5165.	7.9	25
13	A New Observer-Based Cooperative Fault-Tolerant Tracking Control Method With Application to Networked Multiaxis Motion Control System. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 7422-7432.	7.9	65
14	Robust Predictive Tracking Control for Mobile Robots With Intermittent Measurement and Quantization. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 509-518.	7.9	19
15	Performance Evaluation of Distributed Linear Regression Kalman Filtering Fusion. <i>IEEE Transactions on Automatic Control</i> , 2021, 66, 2889-2896.	5.7	10
16	Gaussian process-based nonlinear predictive control for visual servoing of constrained mobile robots with unknown dynamics. <i>Robotics and Autonomous Systems</i> , 2021, 136, 103712.	5.1	11
17	Active Security Control Approach Against DoS Attacks in Cyber-Physical Systems. <i>IEEE Transactions on Automatic Control</i> , 2021, 66, 4303-4310.	5.7	63
18	An Alternative Learning-Based Approach for Economic Dispatch in Smart Grid. <i>IEEE Internet of Things Journal</i> , 2021, 8, 15024-15036.	8.7	12

#	ARTICLE	IF	CITATIONS
19	Distributed $H_{\infty}$ Estimation in Sensor Networks With Two-Channel Stochastic Attacks. IEEE Transactions on Cybernetics, 2020, 50, 465-475.	9.5	49
20	A Bank of Decentralized Extended Information Filters for Target Tracking in Event-Triggered WSNs. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 3281-3289.	9.3	12
21	Nonlinear sequential fusion estimation for clustered sensor networks. Asian Journal of Control, 2020, 22, 1372-1378.	3.0	0
22	A LADRC based fuzzy PID approach to contour error control of networked motion control system with time-varying delays. Asian Journal of Control, 2020, 22, 1973-1985.	3.0	12
23	Set-Membership Estimation for Complex Networks Subject to Linear and Nonlinear Bounded Attacks. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 163-173.	11.3	18
24	Formation Control of Multiple Mobile Robots Incorporating an Extended State Observer and Distributed Model Predictive Approach. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 4587-4597.	9.3	65
25	Sequential Fusion Estimation for Networked Multisensor Nonlinear Systems. IEEE Transactions on Industrial Electronics, 2020, 67, 4991-4999.	7.9	18
26	Sequential Fusion Estimation for Sensor Networks With Deceptive Attacks. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 1829-1843.	4.7	16
27	GESO-Based Position Synchronization Control of Networked Multiaxis Motion System. IEEE Transactions on Industrial Informatics, 2020, 16, 248-257.	11.3	13
28	Dynamic State Estimation for Power Networks by Distributed Unscented Information Filter. IEEE Transactions on Smart Grid, 2020, 11, 2162-2171.	9.0	14
29	Secure dimensionality reduction fusion estimation against eavesdroppers in cyber-physical systems. ISA Transactions, 2020, 104, 154-161.	5.7	8
30	Linear Fusion Estimation for Range-Only Target Tracking With Nonlinear Transformation. IEEE Transactions on Industrial Informatics, 2020, 16, 6403-6412.	11.3	17
31	A Novel Adaptive Kalman Filtering Approach to Human Motion Tracking With Magnetic-Inertial Sensors. IEEE Transactions on Industrial Electronics, 2020, 67, 8659-8669.	7.9	35
32	Real-time Optimal Power Allocation for Smart Grid System via Deep Neural Network: A Learning Based Approach. , 2020, , .		1
33	Sensor attack detection for cyber-physical systems based on frequency domain partition. IET Control Theory and Applications, 2020, 14, 1452-1466.	2.1	8
34	Resilient Privacy-Preserving Distributed Localization Against Dishonest Nodes in Internet of Things. IEEE Internet of Things Journal, 2020, 7, 9214-9223.	8.7	15
35	Sensor attack reconstruction for mobile robots via a switching Kalman fusion mechanism. Nonlinear Dynamics, 2020, 102, 151-161.	5.2	3
36	A Linear Active Disturbance Rejection Control Approach to Position Synchronization Control for Networked Interconnected Motion System. IEEE Transactions on Control of Network Systems, 2020, 7, 1746-1756.	3.7	19

#	ARTICLE	IF	CITATIONS
37	Quantitative Relationship Between Localization Accuracy and Location Privacy Level in Wireless Localization System. IEEE Signal Processing Letters, 2020, 27, 1055-1059.	3.6	5
38	Robust hierarchical identification of Wiener systems in the presence of dynamic disturbances. Journal of the Franklin Institute, 2020, 357, 3809-3834.	3.4	24
39	Robust extended recursive least squares identification algorithm for Hammerstein systems with dynamic disturbances. , 2020, 101, 102716.		34
40	LESO-based position synchronization control for networked multi-axis servo systems with time-varying delay. IEEE/CAA Journal of Automatica Sinica, 2020, 7, 1116-1123.	13.1	21
41	Distributed predictive control of interconnected systems based on disturbance observation. IET Control Theory and Applications, 2020, 14, 3260-3269.	2.1	3
42	Improved Switched System Approach to Networked Control Systems With Time-Varying Delays. IEEE Transactions on Control Systems Technology, 2019, 27, 2711-2717.	5.2	33
43	Sequential Gaussian Approximation Filter for Target Tracking With Nonsynchronous Measurements. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 407-418.	4.7	13
44	A GESO based MPC approach to contour error control of networked motion control system. International Journal of Systems Science, 2019, 50, 2216-2225.	5.5	4
45	Attack and estimator design for multi-sensor systems with undetectable adversary. Automatica, 2019, 109, 108545.	5.0	21
46	Progressive information filtering fusion for multi-sensor nonlinear systems. Signal Processing, 2019, 163, 181-187.	3.7	5
47	GESO-based control for networked systems with time-varying delays. Measurement: Journal of the International Measurement Confederation, 2019, 133, 281-287.	5.0	6
48	Distributed Dimensionality Reduction Fusion Estimation for Cyber-Physical Systems Under DoS Attacks. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 455-468.	9.3	127
49	Sequential fusion estimation for clustered sensor networks. Automatica, 2018, 89, 358-363.	5.0	63
50	Networked filtering with Markov transmission delays and packet disordering. IET Control Theory and Applications, 2018, 12, 687-693.	2.1	19
51	Cooperative Fault Tolerant Tracking Control for Multiagent Systems: An Intermediate Estimator-Based Approach. IEEE Transactions on Cybernetics, 2018, 48, 2972-2980.	9.5	74
52	Generalized Extended State Observer Based Control for Networked Interconnected Systems with Delays. Asian Journal of Control, 2018, 20, 1253-1262.	3.0	16
53	Robust distributed tracking control for linear multi-agent systems based on distributed intermediate estimator. Journal of the Franklin Institute, 2018, 355, 31-53.	3.4	21
54	Distributed Robust Fusion Estimation With Application to State Monitoring Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 2994-3005.	9.3	68

#	ARTICLE	IF	CITATIONS
55	Hybrid Sequential Fusion Estimation for Asynchronous Sensor Network-Based Target Tracking. IEEE Transactions on Control Systems Technology, 2017, 25, 669-676.	5.2	44
56	Aperiodic Optimal Linear Estimation for Networked Systems With Communication Uncertainties. IEEE Transactions on Cybernetics, 2017, 47, 2256-2265.	9.5	16
57	Networked Fusion Estimation With Bounded Noises. IEEE Transactions on Automatic Control, 2017, 62, 5415-5421.	5.7	46
58	Moving Horizon Estimation for Mobile Robots With Multirate Sampling. IEEE Transactions on Industrial Electronics, 2017, 64, 1457-1467.	7.9	62
59	Networked Fusion Estimation under Denial-of-Service Attacks * *The work was supported in part by the National Natural Science Foundation of China under Grant Nos. 61673351, and 61573319, 61403345, in part by the General Research Fund from the Hong Kong Special Administrative Region under Grant CityU 11300415, and in part by the China Post-Doctoral Science Foundation under Grant 2016M590547. IFAC-PapersOnLine, 2017, 50, 3835-3840.	0.9	8
60	Sequential Fusion Estimation for RSS-Based Mobile Robots Localization With Event-Driven WSNs. IEEE Transactions on Industrial Informatics, 2016, 12, 1519-1528.	11.3	32
61	Multi-Rate Distributed Fusion Estimation for Sensor Network-Based Target Tracking. IEEE Sensors Journal, 2016, 16, 1233-1242.	4.7	52
62	Hierarchical Fusion Estimation for Clustered Asynchronous Sensor Networks. IEEE Transactions on Automatic Control, 2016, 61, 3064-3069.	5.7	53
63	New results on stabilization of networked control systems with packet disordering. Automatica, 2015, 52, 255-259.	5.0	77
64	Distributed Fusion Estimation With Communication Bandwidth Constraints. IEEE Transactions on Automatic Control, 2015, 60, 1398-1403.	5.7	64
65	Distributed H $\infty$ fusion filtering with communication bandwidth constraints. Signal Processing, 2014, 96, 284-289.	3.7	49
66	Moving Horizon SINR Estimation for Wireless Networked Systems. IEEE Transactions on Industrial Informatics, 2014, 10, 431-438.	11.3	9
67	Distributed Sampled-Data $H_{\infty}$ Filtering for Sensor Networks With Nonuniform Sampling Periods. IEEE Transactions on Industrial Informatics, 2014, 10, 871-881.	11.3	64
68	Distributed Finite-Horizon Fusion Kalman Filtering for Bandwidth and Energy Constrained Wireless Sensor Networks. IEEE Transactions on Signal Processing, 2014, 62, 797-812.	5.3	83
69	Hierarchical Fusion in Clustered Sensor Networks with Asynchronous Local Estimates. IEEE Signal Processing Letters, 2014, 21, 1506-1510.	3.6	18
70	Fusion Estimation for Sensor Networks With Nonuniform Estimation Rates. IEEE Transactions on Circuits and Systems I: Regular Papers, 2014, 61, 1485-1498.	5.4	53
71	Robust Information Fusion Estimator for Multiple Delay-Tolerant Sensors With Different Failure Rates. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 401-414.	5.4	74
72	Moving Horizon Estimation for Networked Systems With Quantized Measurements and Packet Dropouts. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 1823-1834.	5.4	59

#	ARTICLE	IF	CITATIONS
73	Multi-rate distributed fusion estimation for sensor networks with packet losses. <i>Automatica</i> , 2012, 48, 2016-2028.	5.0	157
74	Moving horizon estimation for networked systems with multiple packet dropouts. <i>Journal of Process Control</i> , 2012, 22, 1593-1608.	3.3	13
75	Optimal guaranteed cost stabilization of networked systems with bounded random packet losses. <i>Optimal Control Applications and Methods</i> , 2012, 33, 81-99.	2.1	6
76	BIBO stability and stabilization of networked control systems with short time-varying delays. <i>International Journal of Robust and Nonlinear Control</i> , 2011, 21, 295-308.	3.7	33
77	A switched system approach to $H^\infty$ control of networked control systems with time-varying delays. <i>Journal of the Franklin Institute</i> , 2011, 348, 165-178.	3.4	83
78	A Robust Control Approach to Stabilization of Networked Control Systems with Short Time-varying Delays. <i>Zidonghua Xuebao/Acta Automatica Sinica</i> , 2010, 36, 87-91.	1.5	19
79	A robust control approach to stabilization of networked control systems with time-varying delays. <i>Automatica</i> , 2009, 45, 2440-2445.	5.0	100
80	Modelling and control of networked control systems with both network-induced delay and packet-dropout. <i>Automatica</i> , 2008, 44, 3206-3210.	5.0	295
81	Output Feedback Stabilization of Networked Control Systems With Packet Dropouts. <i>IEEE Transactions on Automatic Control</i> , 2007, 52, 1705-1710.	5.7	276