

# Bo Chen

## List of Publications by Year in descending order

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109  
papers

2,227  
citations

236925

25  
h-index

233421

45  
g-index

110  
all docs

110  
docs citations

110  
times ranked

1225  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Distributed Fusion Estimation for Nonlinear Cyber-Physical Systems With Attacked Control Signals. IEEE Systems Journal, 2023, 17, 1216-1223.   | 4.6 | 4         |
| 2  | Distributed Estimation and Control for Discrete Time-Varying Interconnected Systems. IEEE Transactions on Automatic Control, 2022, 67, 2192-2207.  | 5.7 | 20        |
| 3  | Distributed Kalman Filtering for Interconnected Dynamic Systems. IEEE Transactions on Cybernetics, 2022, 52, 11571-11580.  | 9.5 | 18        |
| 4  | Energy-Constrained Confidentiality Fusion Estimation Against Eavesdroppers. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 624-628.                                 | 3.0 | 3         |
| 5  | Delay-Dependent Distributed Kalman Fusion Estimation With Dimensionality Reduction in Cyber-Physical Systems. IEEE Transactions on Cybernetics, 2022, 52, 13557-13571.                       | 9.5 | 12        |
| 6  | Distributed wavelet neural networks. Applied Intelligence, 2022, 52, 8735-8745.  | 5.3 | 1         |
| 7  | Distributed Nonlinear Estimation: A Recursive Optimization Approach. Circuits, Systems, and Signal Processing, 2022, 41, 2397-2410.  | 2.0 | 1         |
| 8  | A Modified Deep Convolutional Subdomain Adaptive Network Method for Fault Diagnosis of Wind Turbine Systems. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.           | 4.7 | 12        |
| 9  | Distributed Confidentiality Fusion Estimation Against Eavesdroppers. IEEE Transactions on Aerospace and Electronic Systems, 2022, 58, 3633-3642.   | 4.7 | 4         |
| 10 | Multi-Agent Reinforcement Learning for Decentralized Resilient Secondary Control of Energy Storage Systems Against DoS Attacks. IEEE Transactions on Smart Grid, 2022, 13, 1739-1750.        | 9.0 | 41        |
| 11 | Intermediate-Variable-Based Distributed Fusion Estimation for Wind Turbine Systems. Actuators, 2022, 11, 15.   | 2.3 | 2         |
| 12 | Adaptive output regulation for cyber-physical systems under time-delay attacks. Control Theory and Technology, 2022, 20, 20.   | 1.6 | 1         |
| 13 | Distributed Matrix Weighted Fusion Gaussian Filter. , 2022, 6, 2299-2304.  |     | 1         |
| 14 | Kalman-Like Filter Under Binary Sensors. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.   | 4.7 | 4         |
| 15 | Distributed Secure Estimation Against Unknown FDI Attacks and Load Deviation in Multi-Area Power Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 3007-3011. | 3.0 | 7         |
| 16 | Guest editorial: Machine learning for secure cyber-physical industrial control systems. IET Cyber-Physical Systems: Theory and Applications, 2022, 7, 1-3.                                   | 3.3 | 0         |
| 17 | Secure $H_\infty$ control against time-delay attacks in cyber-physical systems. Journal of Control and Decision, 2022, 9, 420-430.   | 1.6 | 2         |
| 18 | Intermediate-variable-based Kalman filter for linear time-varying systems with unknown inputs. International Journal of Robust and Nonlinear Control, 2022, 32, 2453-2464.                   | 3.7 | 2         |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 19 | Covariance Intersection Fusion Approach for Gait Estimation of Lower Limb Rehabilitation Exoskeleton Robot. , 2022, , .   |      | 0         |
| 20 | Distributed Estimation for Interconnected Dynamic Systems Under Binary Sensors. IEEE Sensors Journal, 2022, 22, 13153-13161.  | 4.7  | 3         |
| 21 | Attack-Resilient Control Against FDI Attacks in Cyber-Physical Systems. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 1099-1102.  | 13.1 | 6         |
| 22 | Active Security Control Approach Against DoS Attacks in Cyber-Physical Systems. IEEE Transactions on Automatic Control, 2021, 66, 4303-4310.  | 5.7  | 63        |
| 23 | Distributed Data-Driven Intrusion Detection for Sparse Stealthy FDI Attacks in Smart Grids. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 993-997.                      | 3.0  | 26        |
| 24 | Distributed Robust Dimensionality Reduction Fusion Estimation Under DoS Attacks and Uncertain Covariances. IEEE Access, 2021, 9, 10328-10337.   | 4.2  | 7         |
| 25 | Distributed Nonlinear Fusion Estimation Without Knowledge of Noise Statistical Information: A Robust Design Approach. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 3107-3117. | 4.7  | 9         |
| 26 | Networked Nonlinear Fusion Estimation Under DoS Attacks. IEEE Sensors Journal, 2021, 21, 7058-7066.   | 4.7  | 13        |
| 27 | Distributed Dimensionality Reduction Fusion Kalman Filtering With Quantized Innovations. Circuits, Systems, and Signal Processing, 2021, 40, 5234-5247.   | 2.0  | 2         |
| 28 | Distributed Fusion Estimation for Unstable Systems With Quantized Innovations. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 6381-6387.                                  | 9.3  | 7         |
| 29 | Bayesian-Wavelet-Based Multisource Decision Fusion. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.   | 4.7  | 6         |
| 30 | Distributed Estimation for Discrete Sequential Systems under Binary Sensors. , 2021, , .  |      | 2         |
| 31 | Secure Intermediate-Variable-Based Estimation for Multi-Area Power Systems under FDI Attacks. , 2021, , .   |      | 1         |
| 32 | Data Tampering Attack Design for ROS-Based Object Detection and Tracking Robotic Platform. , 2021, , .  |      | 0         |
| 33 | Fusion-Based FDI Attack Detection in Cyber-Physical Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 1487-1491.   | 3.0  | 29        |
| 34 | Secure dimensionality reduction fusion estimation against eavesdroppers in cyber-physical systems. ISA Transactions, 2020, 104, 154-161.  | 5.7  | 8         |
| 35 | Fusion Estimation for FDI Sensor Attacks in Distributed Systems. , 2020, , .  |      | 3         |
| 36 | Robust hierarchical identification of Wiener systems in the presence of dynamic disturbances. Journal of the Franklin Institute, 2020, 357, 3809-3834.  | 3.4  | 24        |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 37 | Robust extended recursive least squares identification algorithm for Hammerstein systems with dynamic disturbances. , 2020, 101, 102716.  |      | 34        |
| 38 | Intermediate-Variable-Based Estimation for FDI Attacks in Cyber-Physical Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2762-2766.                  | 3.0  | 29        |
| 39 | Fusion estimation under binary sensors. Automatica, 2020, 115, 108861.  | 5.0  | 13        |
| 40 | Distributed fusion Kalman filtering under binary sensors. International Journal of Robust and Nonlinear Control, 2020, 30, 2570-2578.   | 3.7  | 6         |
| 41 | Fault Detection Method Based on Multi-scale Convolutional Neural Network for Wind Turbine Gearbox. , 2020, , .  |      | 3         |
| 42 | A Switched System Approach Against Time-Delay Attacks in Cyber- Physical Systems. , 2020, , .   |      | 1         |
| 43 | H $\infty$ Fusion Detection of FDI Attacks for Nonlinear Cyber- Physical Systems. , 2020, , .   |      | 0         |
| 44 | Distributed Dimensionality Reduction Fusion Estimation: An H $\infty$ Approach. , 2020, , .   |      | 0         |
| 45 | Distributed Nonlinear Fusion UKF. , 2020, , .   |      | 4         |
| 46 | A New Approach to Linear/Nonlinear Distributed Fusion Estimation Problem. IEEE Transactions on Automatic Control, 2019, 64, 1301-1308.  | 5.7  | 50        |
| 47 | Distributed Fault-Tolerant Consensus Protocol for Fuzzy Multi-Agent Systems. Circuits, Systems, and Signal Processing, 2019, 38, 611-624.   | 2.0  | 11        |
| 48 | Fusion Estimation for Discrete Time-Varying Systems With Bounded Nonlinearities. IEEE Access, 2019, 7, 27097-27105.   | 4.2  | 3         |
| 49 | Progressive Gaussian approximation filter with adaptive measurement update. Measurement: Journal of the International Measurement Confederation, 2019, 148, 106898.                   | 5.0  | 4         |
| 50 | Event/Self-Triggered Control for Leader-Following Consensus Over Unreliable Network With DoS Attacks. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 3137-3149. | 11.3 | 187       |
| 51 | Distributed Fusion Estimation for Linear Time-varying Systems under DoS Attacks and Bounded Noises. , 2019, , .   |      | 1         |
| 52 | Event-triggered Secure Estimation for Large-scale Interconnected Systems Based on Intermediate Estimator. , 2019, , .   |      | 0         |
| 53 | Recursive identification for Wiener non-linear systems with non-stationary disturbances. IET Control Theory and Applications, 2019, 13, 2648-2657.                                    | 2.1  | 11        |
| 54 | Distributed Kalman filtering for time-varying discrete sequential systems. Automatica, 2019, 99, 228-236.   | 5.0  | 58        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | Packet-Based State Feedback Control Under DoS Attacks in Cyber-Physical Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 1421-1425.   | 3.0 | 73        |
| 56 | 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       |
| 57 | Bounded Recursive Optimization Approach for Pose Estimation in Robotic Visual Servoing. Lecture Notes in Computer Science, 2019, , 488-497.   | 1.3 | 0         |
| 58 | Distributed Estimation for Discrete-Time Interconnected Systems. , 2019, , .  |     | 3         |
| 59 | Distributed SINR Fusion Estimation for a Class of Wireless Networks. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 1264-1268.   | 3.0 | 5         |
| 60 | Networked filtering with Markov transmission delays and packet disordering. IET Control Theory and Applications, 2018, 12, 687-693.   | 2.1 | 19        |
| 61 | Secure Fusion Estimation for Bandwidth Constrained Cyber-Physical Systems Under Replay Attacks. IEEE Transactions on Cybernetics, 2018, 48, 1862-1876.  | 9.5 | 229       |
| 62 | Computation-Efficient Centralized Fusion Estimation with Packet Dropouts. , 2018, , .   |     | 0         |
| 63 | Secure Fusion Estimation Against Eavesdroppers. , 2018, , .   |     | 6         |
| 64 | Nonlinear state estimation under bounded noises. Automatica, 2018, 98, 159-168.   | 5.0 | 37        |
| 65 | 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        |
| 66 | Distributed edge event-triggered consensus protocol of multi-agent systems with communication buffer. International Journal of Robust and Nonlinear Control, 2017, 27, 483-496.   | 3.7 | 28        |
| 67 | A 13.5â€“19 GHz 20.6-dB Gain CMOS Power Amplifier for FMCW Radar Application. IEEE Microwave and Wireless Components Letters, 2017, 27, 377-379.  | 3.2 | 28        |
| 68 | A bank of sequential unscented Kalman Filters for target tracking in range-only WSNs. , 2017, , .   |     | 1         |
| 69 | Networked Fusion Estimation With Bounded Noises. IEEE Transactions on Automatic Control, 2017, 62, 5415-5421.   | 5.7 | 46        |
| 70 | Multisensor-Based Periodic Estimation in Sensor Networks With Transmission Constraint and Periodic Mixed Storage. IEEE Transactions on Cybernetics, 2017, 47, 4367-4379.  | 9.5 | 8         |
| 71 | 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         |
| 72 | Distributed fusion filtering for stochastic uncertain systems subject to correlated noises, random delays and data losses. , 2017, , .  |     | 0         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 73 | An analog baseband chain of synthetic aperture radar receiver. , 2016, , .  |     | 0         |
| 74 | Live demonstration: A Ku-band FMCW synthetic aperture radar transceiver for micro-UAVs. , 2016, , .   |     | 4         |
| 75 | A high gain decibel-linear programmable gain amplifier of synthetic aperture radar receiver. , 2016, , .  |     | 7         |
| 76 | Multi-rate Kalman Fusion Estimation for WSNs. , 2016, , 11-44.  |     | 0         |
| 77 | Distributed Fusion Estimation for Sensor Networks with Communication Constraints. , 2016, , .   |     | 4         |
| 78 | Distributed Covariance Intersection Fusion Estimation for Cyber-Physical Systems With Communication Constraints. IEEE Transactions on Automatic Control, 2016, 61, 4020-4026.         | 5.7 | 82        |
| 79 | Hierarchical Fusion Estimation for Clustered Asynchronous Sensor Networks. IEEE Transactions on Automatic Control, 2016, 61, 3064-3069.   | 5.7 | 53        |
| 80 | Distributed Mixed $H_2/H_\infty$ Fusion Estimation With Limited Communication Capacity. IEEE Transactions on Automatic Control, 2016, 61, 805-810.                                    | 5.7 | 61        |
| 81 | Hierarchical Asynchronous Fusion Estimation for WSNs. , 2016, , 147-159.  |     | 0         |
| 82 | $H_\infty$ Fusion Estimation for WSNs with Nonuniform Sampling Rates. , 2016, , 75-97.  |     | 0         |
| 83 | Fusion Estimation for WSNs with Delayed Measurements. , 2016, , 161-185.  |     | 0         |
| 84 | Fusion Estimation for WSNs with Delays and Packet Losses. , 2016, , 187-207.  |     | 0         |
| 85 | $H_\infty$ Fusion Estimation for WSNs with Quantization. , 2016, , 135-146.   |     | 0         |
| 86 | Fusion Estimation for WSNs Using Dimension-Reduction Method. , 2016, , 99-134.  |     | 0         |
| 87 | Kalman Fusion Estimation for WSNs with Nonuniform Estimation Rates. , 2016, , 45-74.  |     | 0         |
| 88 | A 60 GHz low power direct-conversion quadrature-phase transmitter in 130 nm CMOS with low profile cavity backed antenna. Microwave and Optical Technology Letters, 2015, 57, 785-789. | 1.4 | 0         |
| 89 | Networked fusion kalman filtering with multiple uncertainties. IEEE Transactions on Aerospace and Electronic Systems, 2015, 51, 2232-2249.  | 4.7 | 64        |
| 90 | Information Fusion Estimation for spatially distributed cyber-physical systems with communication delay and bandwidth constraints. , 2015, , .  |     | 6         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 91  | Distributed Fusion Estimation With Communication Bandwidth Constraints. IEEE Transactions on Automatic Control, 2015, 60, 1398-1403.   | 5.7 | 64        |
| 92  | Distributed state fusion estimation for nonlinear systems. , 2014, , .   |     | 2         |
| 93  | Distributed H $\infty$ fusion filtering with communication bandwidth constraints. Signal Processing, 2014, 96, 284-289.  | 3.7 | 49        |
| 94  | 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        |
| 95  | Distributed Fusion Estimation With Missing Measurements, Random Transmission Delays and Packet Dropouts. IEEE Transactions on Automatic Control, 2014, 59, 1961-1967.                              | 5.7 | 141       |
| 96  | Energy-Efficient Weighted Observation Fusion Kalman Filtering with Randomly Delayed Measurements. Circuits, Systems, and Signal Processing, 2014, 33, 3299-3316.                                   | 2.0 | 3         |
| 97  | 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        |
| 98  | Distributed fusion Kalman filtering with communication constraints. , 2013, , .  |     | 2         |
| 99  | Multi-Sensor-Based Estimation in Wireless Sensor Network with Stochastic Competitive Transmission. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 298-302. | 0.4 | 0         |
| 100 | Networked multi-sensor fusion estimation with delays, packet losses and missing measurements. , 2012, , .  |     | 5         |
| 101 | Error-Driven Adaptive, Virtual Machine Model-Based Control with High Availability Platform. , 2012, , .  |     | 0         |
| 102 | H $\infty$ filtering for discrete-time genetic regulatory networks with random delays. Mathematical Biosciences, 2012, 239, 97-105.  | 1.9 | 24        |
| 103 | Exponential stability analysis for neutral BAM neural networks with time-varying delays and stochastic disturbances. Journal of Control Theory and Applications, 2012, 10, 92-99.                  | 0.8 | 7         |
| 104 | Exponential convergence rate estimation for neutral BAM neural networks with mixed time-delays. Neural Computing and Applications, 2011, 20, 451-460.  | 5.6 | 9         |
| 105 | H $\infty$ Filtering for Markovian Switching Genetic Regulatory Networks with Time-Delays and Stochastic Disturbances. Circuits, Systems, and Signal Processing, 2011, 30, 1231-1252.              | 2.0 | 29        |
| 106 | Robust Kalman Filtering for Uncertain Discrete Time-delay Systems with Missing Measurement. Zidonghua Xuebao/Acta Automatica Sinica, 2011, 37, 123-128.  | 0.3 | 5         |
| 107 | Hybrid equalization for multipath fading channels with intersymbol interference. , 0, , .  |     | 2         |
| 108 | Game theoretic vulnerability management for secondary frequency control of islanded microgrids against false data injection attacks. IET Cyber-Physical Systems: Theory and Applications, 0, , .   | 3.3 | 2         |

| #   | ARTICLE   | IF | CITATIONS |
|-----|---|----|-----------|
| 109 | Optical variable-in variable-out wavelength converters based on MgO doped LiNbO <sub>3</sub> /quasi-phase matched waveguides. , 0 , . |    | 0         |