# Jianan Wang

## List of Publications by Year in descending order

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Version: 2024-02-01

| 74 | 1,188 | 361413 | 395702 |
|---|---|---|---|
| papers | citations | 20 h-index | 33 g-index |

| 74 | 74 | 74 | 739 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Integrated Optimal Formation Control of Multiple Unmanned Aerial Vehicles. IEEE Transactions on Control Systems Technology, 2013, 21, 1731-1744. | 5.2 | 229 |
| 2 | Robust Output Feedback Consensus for Networked Negative-Imaginary Systems. IEEE Transactions on Automatic Control, 2015, 60, 2547-2552. | 5.7 | 71 |
| 3 | Optimal Cooperative Guidance Law for Salvo Attack: An MPC-Based Consensus Perspective. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 2397-2410. | 4.7 | 60 |
| 4 | Robust cooperative control of multiple heterogeneous Negative-Imaginary systems. Automatica, 2015, 61, 64-72. | 5.0 | 56 |
| 5 | Cascade structure predictive observer design for consensus control with applications to UAVs formation flying. Automatica, 2020, 121, 109200. | 5.0 | 52 |
| 6 | Three-Dimensional Cooperative Homing Guidance Law with Field-of-View Constraint. Journal of Guidance, Control, and Dynamics, 2020, 43, 389-397. | 2.8 | 42 |
| 7 | A modified cooperative proportional navigation guidance law. Journal of the Franklin Institute, 2019, 356, 5692-5705. | 3.4 | 38 |
| 8 | Multi-agent consensus algorithm with obstacle avoidance via optimal control approach. International Journal of Control, 2010, 83, 2606-2621. | 1.9 | 37 |
| 9 | Nonlinear Suboptimal Guidance Law With Impact Angle Constraint: An SDRE-Based Approach. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 4831-4840. | 4.7 | 33 |
| 10 | Distributed Cooperative Guidance for Multivehicle Simultaneous Arrival Without Numerical Singularities. Journal of Guidance, Control, and Dynamics, 2020, 43, 1365-1373. | 2.8 | 31 |
| 11 | Cooperative Guidance for Multiple Powered Missiles with Constrained Impact and Bounded Speed. Journal of Guidance, Control, and Dynamics, 2021, 44, 825-841. | 2.8 | 29 |
| 12 | Three-Dimensional Nonsingular Cooperative Guidance Law with Different Field-of-View Constraints. Journal of Guidance, Control, and Dynamics, 2021, 44, 2001-2015. | 2.8 | 27 |
| 13 | Optimal consensus algorithm integrated with obstacle avoidance. International Journal of Systems Science, 2013, 44, 166-177. | 5.5 | 26 |
| 14 | Fixed-Time Terminal Angle-Constrained Cooperative Guidance Law Against Maneuvering Target. IEEE Transactions on Aerospace and Electronic Systems, 2022, 58, 1352-1366. | 4.7 | 26 |
| 15 | Distributed Auxiliary Particle Filtering With Diffusion Strategy for Target Tracking: A Dynamic Event-Triggered Approach. IEEE Transactions on Signal Processing, 2021, 69, 328-340. | 5.3 | 25 |
| 16 | Guidance Law Design with Fixed-Time Convergent Error Dynamics. Journal of Guidance, Control, and Dynamics, 2021, 44, 1389-1398. | 2.8 | 25 |
| 17 | A varianceâ€constrained approach to eventâ€triggered distributed extended Kalman filtering with multiple fading measurements. International Journal of Robust and Nonlinear Control, 2019, 29, 1558-1576. | 3.7 | 23 |
| 18 | A robust three-dimensional cooperative guidance law against maneuvering target. Journal of the Franklin Institute, 2020, 357, 5735-5752. | 3.4 | 23 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Impact-Angle-Constrained Cooperative Guidance for Salvo Attack. Journal of Guidance, Control, and Dynamics, 2022, 45, 684-703. | 2.8 | 23 |
| 20 | Finite-time distributed event-triggered formation control for quadrotor UAVs with experimentation. ISA Transactions, 2022, 126, 585-596. | 5.7 | 22 |
| 21 | Joint Resource Allocation and 3D Aerial Trajectory Design for Video Streaming in UAV Communication Systems. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 3227-3241. | 8.3 | 21 |
| 22 | Particle Filtering for Nonlinear/Non-Gaussian Systems With Energy Harvesting Sensors Subject to Randomly Occurring Sensor Saturations. IEEE Transactions on Signal Processing, 2021, 69, 15-27. | 5.3 | 20 |
| 23 | Affine formation control for multi-agent systems with prescribed convergence time. Journal of the Franklin Institute, 2021, 358, 7055-7072. | 3.4 | 20 |
| 24 | Three-Dimensional Fixed-Time Cooperative Guidance Law With Impact Angle Constraint and Prespecified Impact Time. IEEE Access, 2021, 9, 29755-29763. | 4.2 | 19 |
| 25 | Aerial cooperative transporting and assembling control using multiple quadrotorâ€“manipulator systems. International Journal of Systems Science, 2018, 49, 662-676. | 5.5 | 18 |
| 26 | Robust Cooperative Control of Networked Train Platoons: A Negative-Imaginary Systemsâ€™ Perspective. IEEE Transactions on Control of Network Systems, 2021, 8, 1743-1753. | 3.7 | 17 |
| 27 | Distributed diffusion unscented Kalman filtering based on covariance intersection with intermittent measurements. Automatica, 2021, 132, 109769. | 5.0 | 17 |
| 28 | Predictive Descriptor Observer Design for a Class of Linear Time-Invariant Systems With Applications to Quadrotor Trajectory Tracking. IEEE Transactions on Industrial Electronics, 2021, 68, 10019-10028. | 7.9 | 16 |
| 29 | Multiple Quadrotors Formation Flying Control Design and Experimental Verification. Unmanned Systems, 2019, 07, 47-54. | 3.6 | 14 |
| 30 | Unified Method for Field-of-View-Limited Homing Guidance. Journal of Guidance, Control, and Dynamics, 2022, 45, 1415-1434. | 2.8 | 13 |
| 31 | Resilient Unscented Kalman Filtering Fusion With Dynamic Event-Triggered Scheme: Applications to Multiple Unmanned Aerial Vehicles. IEEE Transactions on Control Systems Technology, 2023, 31, 370-381. | 5.2 | 13 |
| 32 | Composite weighted average consensus filtering for space object tracking. Acta Astronautica, 2020, 168, 69-79. | 3.2 | 9 |
| 33 | Impact time and angle constrained guidance via rangeâ€based lineâ€ofâ€sight shaping. International Journal of Robust and Nonlinear Control, 2022, 32, 3606-3624. | 3.7 | 8 |
| 34 | Collision-Free Formation Control for Multiple Quadrotor-Manipulator Systems * *This work is supported by NSFC Grant No.61503025 and Research Fund of Key Laboratory within Ministry of Industry and Information. IFAC-PapersOnLine, 2017, 50, 7923-7928. | 0.9 | 7 |
| 35 | Cooperative Circular Guidance with Nonuniform Field-of-View Constraints. Journal of Guidance, Control, and Dynamics, 2022, 45, 1435-1450. | 2.8 | 7 |
| 36 | Hierarchical control of cooperative nonlinear dynamical systems. International Journal of Control, 2012, 85, 1093-1111. | 1.9 | 6 |

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|---|---|---|---|
| 37 | Nonlinear optimal control with disturbance rejection for asteroid landing. Journal of the Franklin Institute, 2018, 355, 8027-8048. | 3.4 | 5 |
| 38 | Dynamic average consensus with topology balancing under a directed graph. International Journal of Robust and Nonlinear Control, 2019, 29, 3014-3026. | 3.7 | 5 |
| 39 | Evader Cooperative Capture by Multiple Pursuers with Area-Minimization Policy. , 2019, , . | | 5 |
| 40 | Graphical Minimax Game and Off-Policy Reinforcement Learning for Heterogeneous MASs with Spanning Tree Condition. Research on World Agricultural Economy, 2021, 01, . | 1.3 | 5 |
| 41 | Secure Particle Filtering for Cyber-Physical Systems With Binary Sensors Under Multiple Attacks. IEEE Systems Journal, 2022, 16, 603-613. | 4.6 | 5 |
| 42 | Multi-agent consensus algorithm with obstacle avoidance via optimal control approach. , 2011, , . | | 4 |
| 43 | A Reconnaissance Penetration Game With Territorial-Constrained Defender. IEEE Transactions on Automatic Control, 2022, 67, 6295-6302. | 5.7 | 4 |
| 44 | A Robust Output Feedback Consensus Protocol for Networked Negative-Imaginary Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 2878-2883. | 0.4 | 3 |
| 45 | Cooperative assembling using multiple robotic manipulators. , 2016, , . | | 3 |
| 46 | Feedback-control-aided image stitching using multi-UAV platform. , 2016, , . | | 3 |
| 47 | Adaptive Affine Formation Maneuver Control of Second-Order Multi-Agent Systems with Disturbances. , 2020, , . | | 3 |
| 48 | Affine Formation Control of General Linear Multi-Agent Systems with Delays. Unmanned Systems, 2023, 11, 123-132. | 3.6 | 3 |
| 49 | Impulsive Consensus of Fractional-Order Takagiâ€“Sugeno Fuzzy Multiagent Systems With Average Dwell Time Approach and Its Applications: Achieving Finite-Time Consensus. IEEE Systems, Man, and Cybernetics Magazine, 2022, 8, 41-50. | 1.4 | 3 |
| 50 | Multi-UAV UWA video surveillance system. , 2016, , . | | 2 |
| 51 | Event/Self-Triggered Consensus Control of Multiagent Systems With Undesirable Sensor Signals. IEEE Transactions on Cybernetics, 2022, 52, 4346-4355. | 9.5 | 2 |
| 52 | disturbance attenuation for a class of Lipschitz nonlinear systems with large input delay. International Journal of Robust and Nonlinear Control, 2021, 31, 873-886. | 3.7 | 2 |
| 53 | Graphical Minimax Game and On-Policy Reinforcement Learning for Consensus of Leaderless Multi-Agent Systems. , 2020, , . | | 2 |
| 54 | Consensus Disturbance Rejection with Delay and Parameter Adaptive Estimation. , 2018, , . | | 1 |

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|---|---|---|---|
| 55 | Cooperative Guidance law under Large Actuator Delay. , 2019, , . | | 1 |
| 56 | Full-order sliding mode control for finite-time attitude synchronization of rigid spacecraft with input delay. , 2019, , . | | 1 |
| 57 | Impact Time Constrained Cooperative Guidance Law Design via Line-of-Sight Shaping. , 2021, , . | | 1 |
| 58 | Remote State Estimation for Jump Markov Nonlinear Systems: A Stochastic Event-Triggered Approach. , 2020, , . | | 1 |
| 59 | Targets-Attackers-Defenders Game via Pairwise Outcomes. Unmanned Systems, 2023, 11, 133-142. | 3.6 | 1 |
| 60 | Consensus filter on networked single-integrator system. , 2012, , . | | 0 |
| 61 | Robust cooperative tracking of multiple p-order power integrators. , 2016, , . | | 0 |
| 62 | MPC-consensus based optimal cooperative guidance law design. , 2016, , . | | 0 |
| 63 | Output synchronization of multiple FOSMIB power systems. , 2017, , . | | 0 |
| 64 | Optimal distributed coordination control of multiple photovoltaic generators in distribution networks. , 2017, , . | | 0 |
| 65 | Formation Control of Multi-UAV Systems using Zeroing Dynamics Method. , 2017, , . | | 0 |
| 66 | Cooperative extremum seeking for power availability detection of photovoltaic cluster. , 2017, , . | | 0 |
| 67 | Event-Triggered Distributed Extended Kalman Filtering with Randomly Occurring Deception Attack: A Variance-Constrained Approach. , 2018, , . | | 0 |
| 68 | Composite Weighted Average Consensus Filtering. , 2018, , . | | 0 |
| 69 | Robust Formation Control of Train Platoons for Interval Maintaining. , 2020, , . | | 0 |
| 70 | Nonlinear Impact Angle Constrained Guidance Law Design via the SDRE Method. Lecture Notes in Electrical Engineering, 2022, , 1229-1238. | 0.4 | 0 |
| 71 | Consensus Based Cooperative Guidance with a Leader. , 2020, , . | | 0 |
| 72 | Event-triggered Consensus Control of Multi-Agent Systems with Undesirable Sensor Signals. , 2020, , . | | 0 |

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|---|---|---|---|
| 73 | Robust safety formation control for multiple unmanned helicopters. , 2020, , . | | 0 |
| 74 | Consensus Control of Multi-Agent Systems Based on Adaptive Disturbance Observer. , 2022, , . | | 0 |