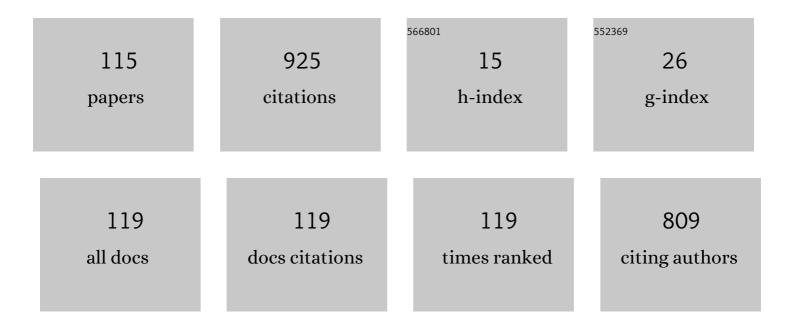
Yuan-Li Cai

List of Publications by Year in descending order

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| # | Article | lF | CITATIONS |
|----|--|-----|-----------|
| 1 | Observability Metrics for Single-Target Tracking With Bearings-Only Measurements. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 1065-1077. | 5.9 | 8 |
| 2 | Three-dimensional cooperative interception guidance law with impact time constraint. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2022, 236, 191-201. | 0.7 | 2 |
| 3 | Evasion guidance for air-breathing hypersonic vehicles against unknown pursuer dynamics. Neural Computing and Applications, 2022, 34, 5213-5224. | 3.2 | 4 |
| 4 | The impact of vaccination on the spread of COVID-19: Studying by a mathematical model. Physica A: Statistical Mechanics and Its Applications, 2022, 590, 126717. | 1.2 | 25 |
| 5 | Three-dimensional cooperative guidance law to control impact time and angle with fixed-time convergence. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2022, 236, 1647-1666. | 0.7 | 4 |
| 6 | A spread model of COVID-19 with some strict anti-epidemic measures. Nonlinear Dynamics, 2022, 109, 265-284. | 2.7 | 2 |
| 7 | Fixedâ€ŧime nonâ€singular terminal sliding mode control with globally fast convergence. IET Control Theory and Applications, 2022, 16, 1227-1241. | 1.2 | 7 |
| 8 | Distributed Double-Layered Dynamic Matrix Control for Large-Scale System. Mathematical Problems in Engineering, 2022, 2022, 1-15. | 0.6 | 0 |
| 9 | Midcourse Iterative Guidance Method for the Impact Time and Angle Control of Two-Pulse Interceptors. Aerospace, 2022, 9, 323. | 1.1 | 3 |
| 10 | Output feedback MPC for uncertain delayed system and control of a wind tunnel system. Information Sciences, 2021, 556, 273-287. | 4.0 | 4 |
| 11 | Robust Model Predictive Control With Bi-Level Optimization for Boiler-Turbine System. IEEE Access, 2021, 9, 48244-48253. | 2.6 | 5 |
| 12 | Evasion-Faced Fast Adaptive Neural Attitude Control for Generic Hypersonic Vehicles with Structural and Parametric Uncertainties. Mathematical Problems in Engineering, 2021, 2021, 1-12. | 0.6 | 1 |
| 13 | Intercept Strategy for Maneuvering Target Based on Deep Reinforcement Learning. , 2021, , . | | 6 |
| 14 | Fixed-Time Nonsingular Terminal Sliding Mode Control with Compound Sliding Surface. , 2021, , . | | 0 |
| 15 | Bare Bones Particle Swarms With Linear Variable Weight. , 2021, , . | | 0 |
| 16 | Robust MPC for Asymmetric Input and State Constraints. , 2021, , . | | 1 |
| 17 | On-line Prediction Method of Ferrous Concentration in Iron Removal Process by Goethite. , 2021, , . | | 0 |
| 18 | Attitude Estimation Algorithm of Portable Mobile Robot Based on Complementary Filter. Micromachines, 2021, 12, 1373. | 1.4 | 6 |

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Adaptive super-twisting control for orbiting around irregular shape small bodies with input saturation. Aerospace Science and Technology, 2020, 106, 106171. | 2.5 | 12 |
| 20 | A Fast Nonsingular Terminal Sliding Mode Control Method for Nonlinear Systems With Fixed-Time Stability Guarantees. IEEE Access, 2020, 8, 60444-60454. | 2.6 | 47 |
| 21 | Robust Receding Horizon Control with Free Control Moves for Polytopic Parametric Uncertainty Systems Subject to Multiple Input Delays. Mathematical Problems in Engineering, 2020, 2020, 1-12. | 0.6 | 0 |
| 22 | Twistor-based pose control for asteroid landing with path constraints. Nonlinear Dynamics, 2020, 100, 2427-2448. | 2.7 | 14 |
| 23 | Research on the Prediction of Load Regulation Capacity for Supercritical Thermal Power Unit. Journal of Power and Energy Engineering, 2020, 08, 23-36. | 0.3 | 1 |
| 24 | Gaussian sum pseudolinear Kalman filter for bearingsâ€only tracking. IET Control Theory and Applications, 2020, 14, 452-460. | 1.2 | 8 |
| 25 | Adaptive neural network disturbance observer based nonsingular fast terminal sliding mode control for a constrained flexible air-breathing hypersonic vehicle. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2019, 233, 2642-2662. | 0.7 | 4 |
| 26 | A Cooperative Guidance Law for Multiple Missiles with Impact Time and Terminal Angle Constraints. , 2019, , . | | 1 |
| 27 | Efficient and accurate online estimation algorithm for zero-effort-miss and time-to-go based on data driven method. Chinese Journal of Aeronautics, 2019, 32, 2311-2323. | 2.8 | 5 |
| 28 | Immersion and Invariance Based Adaptive Backstepping Control for Body-Fixed Hovering Over an Asteroid. IEEE Access, 2019, 7, 34850-34861. | 2.6 | 18 |
| 29 | 3D optimal defensive guidance strategy with safe distance. Transactions of the Institute of Measurement and Control, 2019, 41, 4285-4300. | 1.1 | 2 |
| 30 | Velocity-Free Saturated Control for Hovering Over an Asteroid With Disturbance Rejection. IEEE Access, 2019, 7, 69292-69303. | 2.6 | 5 |
| 31 | Adaptive Estimation and Cooperative Guidance for Active Aircraft Defense in Stochastic Scenario. Sensors, 2019, 19, 979. | 2.1 | 5 |
| 32 | Multi-interceptor Target Allocation Based on Improved Particle Swarm Optimization Algorithm. , 2019, , . | | 3 |
| 33 | Maneuvering Target Tracking based on Adaptive Cooperative Cubature Kalman Filter. , 2019, , . | | 0 |
| 34 | Three-Dimensional Fast Fixed-time Convergence Guidance Law With Impact Angle Constraint. IEEE Access, 2019, 7, 180467-180481. | 2.6 | 10 |
| 35 | Robust Output Feedback Model Predictive Control for Systems With Norm-Bounded Uncertainty: An LMI Approach. IEEE Access, 2019, 7, 183869-183876. | 2.6 | 6 |
| 36 | Adaptive double-saturated control for hovering over an asteroid. Advances in Space Research, 2019, 63, 2035-2051. | 1.2 | 13 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | A new direct statistical analysis of nonlinear systems: CAUTDET. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2019, 233, 382-389. | 0.7 | 1 |
| 38 | A Fuzzy Model Predictive Control Based Upon Adaptive Neural Network Disturbance Observer for a Constrained Hypersonic Vehicle. IEEE Access, 2018, 6, 5927-5938. | 2.6 | 23 |
| 39 | Scheduled Composite Off-Line Output Feedback Model Predictive Control for a Constrained Hypersonic Vehicle Using Polyhedral Invariant Sets. Journal of Aerospace Engineering, 2018, 31, 04018035. | 0.8 | 5 |
| 40 | Optimal cooperative guidance with guaranteed miss distance in three-body engagement. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2018, 232, 492-504. | 0.7 | 7 |
| 41 | Adaptive Fifth-Degree Cubature Information Filter for Multi-Sensor Bearings-Only Tracking. Sensors, 2018, 18, 3241. | 2.1 | 12 |
| 42 | Robust Finite Time Control for Stabilization of Rigid Spacecraft. , 2018, , . | | 0 |
| 43 | Threeâ€Dimensional Impact Angle Constrained Guidance Laws with Fixedâ€Time Convergence. Asian Journal of Control, 2017, 19, 2240-2254. | 1.9 | 14 |
| 44 | Reentry Trajectory Optimization for Hypersonic Glide Vehicle with Flexible Initial Conditions. Journal of Aerospace Engineering, 2017, 30, . | 0.8 | 11 |
| 45 | On SFTSM control with fixedâ€ŧime convergence. IET Control Theory and Applications, 2017, 11, 766-773. | 1.2 | 82 |
| 46 | Stability of switched nonlinear time-delay systems with stable and unstable subsystems. Nonlinear Analysis: Hybrid Systems, 2017, 24, 58-68. | 2.1 | 32 |
| 47 | Feedforward DMC-PID cascade strategy for main steam temperature control system in fossil-fired power plant. , 2017, , . | | 4 |
| 48 | Bearings-only tracking with a Gaussian-sum based ensemble Kalman filter. , 2017, , . | | 1 |
| 49 | Quaternion based sliding mode attitude control design for spacecraft. , 2017, , . | | 3 |
| 50 | Combined moving horizon estimation and model predictive control for main steam temperature system. , 2017, , . | | 1 |
| 51 | NDOB-based three-dimensional guidance law with fast and finite-time convergence. , 2017, , . | | 2 |
| 52 | Comparing EKF and SPKF Algorithms for Simultaneous Localization and Mapping (SLAM). Journal of Robotics, Networking and Artificial Life, 2017, 3, 217. | 0.2 | 2 |
| 53 | Safety on Teleoperation Demining wheeled robots based on fuzzy logic controller and haptic system. Journal of Robotics, Networking and Artificial Life, 2017, 3, 227. | 0.2 | 1 |
| 54 | Evidence-Based Multi-disciplinary Robust Optimization for Mars Microentry Probe Design. Studies in Computational Intelligence, 2017, , 135-155. | 0.7 | 1 |

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|----|---|-----|-----------|
| 55 | Design and numerical simulation of a differential game guidance law. , 2016, , . | | 2 |
| 56 | State space description based predictive control for normal temperature continuous transonic wind tunnel. , 2016, , . | | 0 |
| 57 | Scheduled dual mode predictive control for a flexible air-breathing hypersonic vehicle using polyhedral invariant sets. , 2016, , . | | 0 |
| 58 | On the guidance and control scheme of EKV in terminal interception phase. , 2016, , . | | 0 |
| 59 | Finite-time stability of discrete-time switched delay systems with nonlinear disturbances. , 2016, , . | | 1 |
| 60 | Finite-time stability for impulsive switched delay systems with nonlinear disturbances. Journal of the Franklin Institute, 2016, 353, 3578-3594. | 1.9 | 23 |
| 61 | N4SID based subspace identification method for normal temperature continuous transonic wind tunnel system. , 2016, , . | | 2 |
| 62 | A Novel Evolution Kalman Filter Algorithm for Shortâ€Term Climate Prediction. Asian Journal of Control, 2016, 18, 400-405. | 1.9 | 4 |
| 63 | Variable fidelity robust optimization of pulsed laser orbital debris removal under epistemic uncertainty. Advances in Space Research, 2016, 57, 1698-1714. | 1.2 | 6 |
| 64 | Adaptive Finite-Time Control for Attitude Tracking of Rigid Spacecraft. Journal of Aerospace Engineering, 2016, 29, 04016016. | 0.8 | 8 |
| 65 | Nonlinear disturbance observer-based model predictive control for a generic hypersonic vehicle. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2016, 230, 3-12. | 0.7 | 16 |
| 66 | Robust adaptive finite time control for spacecraft global attitude tracking maneuvers. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2016, 230, 1027-1043. | 0.7 | 3 |
| 67 | Haptic system with fuzzy controller for extended control of Teleoperation mine detector wheeled robots. Proceedings of International Conference on Artificial Life and Robotics, 2016, 21, 285-288. | 0.1 | Ο |
| 68 | Simultaneous Localization and Mapping (SLAM) algorithm base on EKF and SPKF Proceedings of International Conference on Artificial Life and Robotics, 2016, 21, 217-220. | 0.1 | 1 |
| 69 | A study on re-planning orbit of exoatmospheric vehicle. , 2015, , . | | Ο |
| 70 | Oscillation and asymptotic behavior of third-order neutral differential equations with distributed deviating arguments. Advances in Difference Equations, 2015, 2015, . | 3.5 | 18 |
| 71 | Effect analysis of uncertainties in the reentry process of hypersonic vehicles. , 2015, , . | | 0 |
| 72 | Offset-Free Output Feedback Robust Model Predictive Control for a Generic Hypersonic Vehicle. Journal of Aerospace Engineering, 2015, 28, 04014147. | 0.8 | 5 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Exponential Stabilization of a Class of Time-Varying Delay Systems with Nonlinear Perturbations. Mathematical Problems in Engineering, 2015, 2015, 1-11. | 0.6 | 1 |
| 74 | A modified algorithm for the time-fixed orbital interception. , 2015, , . | | 1 |
| 75 | Robust design optimization using integrated evidence computation — With application to Orbital Debris Removal. , 2015, , . | | 1 |
| 76 | Some dynamic integral inequalities with mixed nonlinearities on time scales. Journal of Inequalities and Applications, 2015, 2015, . | 0.5 | 9 |
| 77 | Asymptotic behavior of switched delay systems with nonlinear disturbances. Applied Mathematics and Computation, 2015, 268, 522-533. | 1.4 | 15 |
| 78 | Fixed-time control for spacecraft attitude tracking based on quaternion. Acta Astronautica, 2015, 115, 303-313. | 1.7 | 56 |
| 79 | Higher Order Sliding Mode Control with Fast Transient Performance. , 2015, , . | | 2 |
| 80 | Existence of nonoscillatory solutions to second-order nonlinear neutral difference equations. Journal of Nonlinear Science and Applications, 2015, 08, 884-892. | 0.4 | 6 |
| 81 | Side-Mounted Window Orientation Algorithm and Attitude Controller Design for Kinetic Kill Vehicle. , 2014, , . | | 2 |
| 82 | Robust design of Mars entry micro-probe with evidence theory and multi-fidelity strategies. Engineering Computations, 2014, 31, 1052-1073. | 0.7 | 1 |
| 83 | Robust Optimization with Tchebysheff Decomposition for Mars Entry Probe Design. Advances in Intelligent Systems and Computing, 2014, , 275-289. | 0.5 | 1 |
| 84 | Highâ€order sliding mode control design based on adaptive terminal sliding mode. International Journal of Robust and Nonlinear Control, 2013, 23, 149-166. | 2.1 | 29 |
| 85 | An opposite direction searching algorithm for calculating the type-1 ordered weighted average. Knowledge-Based Systems, 2013, 52, 176-180. | 4.0 | 1 |
| 86 | Seeding and Harvest: A Framework for Unsupervised Feature Selection Problems. Sensors, 2013, 13, 292-333. | 2.1 | 0 |
| 87 | Likelihood-based iteration square-root cubature Kalman filter with applications to state estimation of re-entry ballistic target. Transactions of the Institute of Measurement and Control, 2013, 35, 949-958. | 1.1 | 10 |
| 88 | Ordinal outlier detection based on recursive uniform partitioning. Transactions of the Institute of Measurement and Control, 2013, 35, 940-948. | 1.1 | 0 |
| 89 | Energy-Management Steering Maneuver for Thrust Vector-Controlled Interceptors. Journal of Guidance, Control, and Dynamics, 2012, 35, 1798-1804. | 1.6 | 6 |
| 90 | Predictive Functional Control-Based Missile Autopilot Design. Journal of Guidance, Control, and Dynamics, 2012, 35, 1450-1455. | 1.6 | 21 |

| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 91 | Advantages of the Enhanced Opposite Direction Searching Algorithm for Computing the Centroid of An Interval Typeâ€⊋ Fuzzy Set. Asian Journal of Control, 2012, 14, 1422-1430. | 1.9 | 44 |
| 92 | Imaging deviation through non-uniform flow fields around high-speed flying vehicles. Optik, 2012, 123, 1177-1182. | 1.4 | 14 |
| 93 | Fuzzy disturbance observer based attitude controller design for spacecraft. , 2011, , . | | 2 |
| 94 | Influence of non-uniform flow fields on imaging deviation of side-window airborne optical systems. , 2011, , . | | 3 |
| 95 | High altitude aero-optic imaging deviation prediction for a hypersonic flying vehicle. , 2011, , . | | 2 |
| 96 | Iterated cubature Kalman filter and its application. , 2011, , . | | 12 |
| 97 | Influence of altitude on aero-optic imaging deviation. Applied Optics, 2011, 50, 2949. | 2.1 | 50 |
| 98 | A novel feature selection methodology based on outlier detection technologies. , 2011, , . | | 0 |
| 99 | Ordinal isolation: An efficient and effective intelligent outlier detection algorithm. , 2011, , . | | 4 |
| 100 | A high order sliding mode control scheme based on adaptive radial basis function neural network. , 2011, , . | | 1 |
| 101 | A Reliable Energy-Efficient Multi-Level Routing Algorithm for Wireless Sensor Networks Using Fuzzy Petri Nets. Sensors, 2011, 11, 3381-3400. | 2.1 | 29 |
| 102 | Optimal guidance law and control of impact angle for the kinetic kill vehicle. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2011, 225, 1027-1036. | 0.7 | 13 |
| 103 | Fuzzy Logic Based Thickness Control System and Its Simulation. , 2009, , . | | 2 |
| 104 | Petri nets semantics of ï€-calculus. Frontiers of Electrical and Electronic Engineering in China: Selected Publications From Chinese Universities, 2008, 3, 290-294. | 0.6 | 0 |
| 105 | Design of an Energy-Efficient Distributed Multi-level Clustering Algorithm for Wireless Sensor Networks. , 2008, , . | | 8 |
| 106 | On modeling and analyzing multi-agent systems using π-calculus. Journal of Shanghai University, 2007, 11, 58-63. | 0.1 | 0 |
| 107 | On design of multiwavelet prefilters. Applied Mathematics and Computation, 2006, 172, 1175-1187. | 1.4 | 8 |
| 108 | System identification based on NARMAX model using Hopfield networks. Journal of Shanghai University, 2006, 10, 238-243. | 0.1 | 2 |

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| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 109 | Hybrid Fuzzy Neural Network Control for Complex Industrial Process. , 2006, , 533-538. | | Ο |
| 110 | Improved system identification approach using wavelet networks. Journal of Shanghai University, 2005, 9, 159-163. | 0.1 | 7 |
| 111 | Least Squares Wavelet Support Vector Machines for Nonlinear System Identification. Lecture Notes in Computer Science, 2005, , 436-441. | 1.0 | 14 |
| 112 | Adaptive wavelet domain thresholding denoising. , 2003, 5253, 245. | | 0 |
| 113 | Bifurcation and Chaos in the Duffing Oscillator with a PID Controller. Nonlinear Dynamics, 1997, 12, 251-262. | 2.7 | 18 |
| 114 | Design and application of wavelet networks based on immune algorithm. , 0, , . | | 1 |
| 115 | Square Root Cubature Particle Filter. Advanced Materials Research, 0, 219-220, 727-731. | 0.3 | 3 |