

Xinwei Wang

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

621
citations

516215

16
h-index

610482

24
g-index

48
all docs

48
docs citations

48
times ranked

283
citing authors

#	ARTICLE	IF	CITATIONS
1	A symplectic pseudospectral method for nonlinear optimal control problems with inequality constraints. ISA Transactions, 2017, 68, 335-352.	3.1	69
2	Interval estimation and optimization for motion trajectory of overhead crane under uncertainty. Nonlinear Dynamics, 2019, 96, 1693-1715.	2.7	53
3	An hp symplectic pseudospectral method for nonlinear optimal control. Communications in Nonlinear Science and Numerical Simulation, 2017, 42, 623-644.	1.7	50
4	Optimal vaccination strategy of a constrained time-varying SEIR epidemic model. Communications in Nonlinear Science and Numerical Simulation, 2019, 67, 37-48.	1.7	45
5	A unified symplectic pseudospectral method for motion planning and tracking control of 3D underactuated overhead cranes. International Journal of Robust and Nonlinear Control, 2019, 29, 2236-2253.	2.1	45
6	A review on carrier aircraft dispatch path planning and control on deck. Chinese Journal of Aeronautics, 2020, 33, 3039-3057.	2.8	39
7	Cooperative Multi-UAV Task Assignment in Cross-Regional Joint Operations Considering Ammunition Inventory. Drones, 2022, 6, 77.	2.7	28
8	Stabilizing constrained chaotic system using a symplectic pseudospectral method. Communications in Nonlinear Science and Numerical Simulation, 2018, 56, 77-92.	1.7	23
9	An iterative symplectic pseudospectral method to solve nonlinear state-delayed optimal control problems. Communications in Nonlinear Science and Numerical Simulation, 2017, 48, 95-114.	1.7	22
10	Trajectory planning and tracking control for towed carrier aircraft system. Aerospace Science and Technology, 2019, 84, 830-838.	2.5	21
11	A Simultaneous Planning and Control Method Integrating APF and MPC to Solve Autonomous Navigation for USVs in Unknown Environments. Journal of Intelligent and Robotic Systems: Theory and Applications, 2022, 105, .	2.0	21
12	Optimal control based coordinated taxiing path planning and tracking for multiple carrier aircraft on flight deck. Defence Technology, 2022, 18, 238-248.	2.1	20
13	Model-Based Dynamic Event-Triggered Control for Cyber-Physical Systems Subject to Dynamic Quantization and DoS Attacks. IEEE Transactions on Network Science and Engineering, 2022, 9, 2406-2417.	4.1	19
14	A symplectic local pseudospectral method for solving nonlinear state-delayed optimal control problems with inequality constraints. International Journal of Robust and Nonlinear Control, 2018, 28, 2097-2120.	2.1	17
15	Research on Cooperative Trajectory Planning and Tracking Problem for Multiple Carrier Aircraft on the Deck. IEEE Systems Journal, 2020, 14, 3027-3038.	2.9	17
16	A Novel EPT Autonomous Motion Control Framework for an Off-Axle Hitching Tractor-Trailer System With Drawbar. IEEE Transactions on Intelligent Vehicles, 2021, 6, 376-385.	9.4	17
17	An energy-time optimal autonomous motion control framework for overhead cranes in the presence of obstacles. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 2373-2385.	1.1	11
18	A mini review on UAV mission planning. Journal of Industrial and Management Optimization, 2023, 19, 3362-3382.	0.8	10

#	ARTICLE	IF	CITATIONS
19	A multi-regional, hierarchical-tier mathematical model of the spread and control of COVID-19 epidemics from epicentre to adjacent regions. <i>Transboundary and Emerging Diseases</i> , 2022, 69, 549-558.	1.3	9
20	Mathematical analysis of a human papillomavirus transmission model with vaccination and screening. <i>Mathematical Biosciences and Engineering</i> , 2020, 17, 5449-5476.	1.0	9
21	A symplectic pseudospectral method for constrained time-delayed optimal control problems and its application to biological control problems. <i>Optimization</i> , 2021, 70, 2527-2557.	1.0	8
22	Robust motion trajectory optimization of overhead cranes based on polynomial chaos expansion. <i>ISA Transactions</i> , 2021, 110, 71-85.	3.1	8
23	Mathematical modelling and projecting the second wave of COVID-19 pandemic in Europe. <i>Journal of Epidemiology and Community Health</i> , 2021, 75, 601-603.	2.0	7
24	A homogenization-planning-tracking method to solve cooperative autonomous motion control for heterogeneous carrier dispatch systems. <i>Chinese Journal of Aeronautics</i> , 2022, 35, 293-305.	2.8	7
25	A symplectic indirect approach for a class of nonlinear optimal control problems of differential-algebraic systems. <i>International Journal of Robust and Nonlinear Control</i> , 2021, 31, 2712-2736.	2.1	6
26	Model Predictive Control for Automatic Carrier Landing with Time Delay. <i>International Journal of Aerospace Engineering</i> , 2021, 2021, 1-19.	0.5	5
27	Optimal strategy for a dose-escalation vaccination against COVID-19 in refugee camps. <i>AIMS Mathematics</i> , 2022, 7, 9288-9310.	0.7	5
28	A symplectic moving horizon estimation algorithm with its application to the Earth-Moon L2 libration point navigation. <i>Astrodynamics</i> , 2019, 3, 137-153.	1.5	4
29	Input-constrained chaos synchronization of horizontal platform systems via a model predictive controller. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2021, 235, 4862-4872.	1.1	4
30	A fast-moving horizon estimation method based on the symplectic pseudospectral algorithm. <i>Transactions of the Institute of Measurement and Control</i> , 2021, 43, 2500-2511.	1.1	4
31	Generalized Synchronization of Chaotic Systems Using a Symplectic Pseudospectral Optimal Control Method. , 2018, , .		3
32	Trajectory Planning of Double Pendulum Crane Considering Interval Uncertainty. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , 2019, 55, 204.	0.7	3
33	å...æœ%æ1/2œä1/4œœÿæ—¶æ»žçš,,æ—¶â•SEIRæ”jâžçš,,æœœä1/4ç—«è«—æŽŸçšç—ç•¥. <i>Applied Mathematics and Mechanics</i> , 2019, 40,		
34	A symplectic direct method for motion-driven optimal control of mechanical systems. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2022, 111, 106501.	1.7	3
35	Optimal Motion Planning of Four-Wheeled Trailer System. , 2019, , .		1
36	Optimal path planning of two-wheeled mobile robots in the presence of dynamic obstacles. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
37	Motion Planning and Control for Overhead Cranes. Intelligent Systems, Control and Automation: Science and Engineering, 2021, , 145-164.	0.3	0
38	Path Planning for Tractor-Trailer System. Intelligent Systems, Control and Automation: Science and Engineering, 2021, , 165-178.	0.3	0
39	Mathematical Foundation. Intelligent Systems, Control and Automation: Science and Engineering, 2021, , 15-32.	0.3	0
40	SPM for Nonlinear Optimal Control Problems with Inequality Constraints. Intelligent Systems, Control and Automation: Science and Engineering, 2021, , 53-83.	0.3	0
41	Model Predictive Control: From Open-Loop to Closed-Loop. Intelligent Systems, Control and Automation: Science and Engineering, 2021, , 115-119.	0.3	0
42	Optimal Maneuver for Spacecraft. Intelligent Systems, Control and Automation: Science and Engineering, 2021, , 121-130.	0.3	0
43	Optimal Path Planning of UGS. Intelligent Systems, Control and Automation: Science and Engineering, 2021, , 131-144.	0.3	0