

Anton H J De Ruiter

List of Publications by Year in descending order

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64
papers

1,199
citations

430874

18
h-index

414414

32
g-index

64
all docs

64
docs citations

64
times ranked

860
citing authors

#	ARTICLE	IF	CITATIONS
1	Force-Based Algorithm for Motion Planning of Large Agent. IEEE Transactions on Cybernetics, 2022, 52, 654-665.	9.5	11
2	Trajectory correction for lunar flyby transfers to libration point orbits using continuous thrust. Astrodynamics, 2022, 6, 285-300.	2.4	4
3	Adaptive Fault-Tolerant Attitude Tracking Control for Flexible Spacecraft With Guaranteed Performance Bounds. IEEE Transactions on Aerospace and Electronic Systems, 2022, 58, 1922-1940.	4.7	21
4	Magnetic spacecraft attitude stabilization with two torquers. Acta Astronautica, 2022, 192, 157-167.	3.2	3
5	Robust coordination control of a space manipulator to detumble a non-cooperative target. Acta Astronautica, 2021, 179, 266-279.	3.2	5
6	Optimal Powered Aerogravity-Assist Trajectories. Journal of Guidance, Control, and Dynamics, 2021, 44, 151-162.	2.8	5
7	Orbital analysis of small bodies in co-orbital motion with Jupiter through the torus structure. Monthly Notices of the Royal Astronomical Society, 2021, 502, 2183-2197.	4.4	4
8	Lunar flyby transfers to L5 axial orbit. Acta Astronautica, 2021, 180, 516-526.	3.2	3
9	Distributed optimal control allocation for 6-dof spacecraft with redundant thrusters. Aerospace Science and Technology, 2021, 118, 106971.	4.8	7
10	Powered Swing-By with Continuous Thrust. Journal of Guidance, Control, and Dynamics, 2020, 43, 111-121.	2.8	4
11	Dissipativity Properties of Nonlinear Systems Under Network Constraints. IEEE Transactions on Automatic Control, 2020, 65, 2708-2715.	5.7	8
12	Quantification of attitude effects on orbital dynamics near asteroids. Acta Astronautica, 2020, 167, 467-482.	3.2	9
13	Magnetic control without attitude determination for spinning spacecraft. Acta Astronautica, 2020, 169, 108-123.	3.2	6
14	Finite-time spacecraft attitude control under input magnitude and rate saturation. Nonlinear Dynamics, 2020, 99, 2201-2217.	5.2	24
15	A control allocation scheme for spacecraft attitude stabilization based on distributed average consensus. Aerospace Science and Technology, 2020, 106, 106173.	4.8	12
16	Star Centroid Positioning Error Correction Aided by Gyroscope Output in INS and CNS. Journal of Aerospace Engineering, 2020, 33, .	1.4	3
17	A new understanding of L4 and L5 axial orbits through the torus structure. Monthly Notices of the Royal Astronomical Society, 2020, 498, 5343-5352.	4.4	5
18	Multi-Agent Motion Planning for Dense and Dynamic Environments via Deep Reinforcement Learning. IEEE Robotics and Automation Letters, 2020, 5, 3221-3226.	5.1	69

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19	Real-Time Autonomous Obstacle Avoidance for Fixed-Wing UAVs Using a Dynamic Model. <i>Journal of Aerospace Engineering</i> , 2020, 33, .	1.4	4
20	Online Feasible Trajectory Generation for Collision Avoidance in Fixed-Wing Unmanned Aerial Vehicles. <i>Journal of Guidance, Control, and Dynamics</i> , 2020, 43, 1201-1209.	2.8	9
21	Station-keeping strategy for real translunar libration point orbits using continuous thrust. <i>Aerospace Science and Technology</i> , 2019, 94, 105376.	4.8	11
22	INS/CNS navigation system based on multi-star pseudo measurements. <i>Aerospace Science and Technology</i> , 2019, 95, 105506.	4.8	14
23	Velocity-free spacecraft attitude stabilization using two control torques. <i>Automatica</i> , 2019, 109, 108553.	5.0	4
24	Detumbling a Non-Cooperative Space Target with Model Uncertainties Using a Space Manipulator. <i>Journal of Guidance, Control, and Dynamics</i> , 2019, 42, 910-918.	2.8	22
25	Planar near-Earth asteroids in resonance with the Earth. <i>Icarus</i> , 2019, 333, 52-60.	2.5	9
26	Transfers to lunar libration point orbits. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019, 74, 180-200.	3.3	7
27	Distributed and Reliable Output Feedback Control of Spacecraft Formation With Velocity Constraints and Time Delays. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019, 24, 2541-2549.	5.8	13
28	Galerkin Variational Integrators for Orbit Propagation with Applications to Small Bodies. <i>Journal of Guidance, Control, and Dynamics</i> , 2019, 42, 347-363.	2.8	5
29	Adaptive Fault-Tolerant Spacecraft Pose Tracking With Control Allocation. <i>IEEE Transactions on Control Systems Technology</i> , 2019, 27, 479-494.	5.2	40
30	Decentralised event-based synchronisation and control of spacecraft. <i>IET Control Theory and Applications</i> , 2019, 13, 2694-2701.	2.1	2
31	Short-term capture of the Earth-Moon system. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 5464-5478.	4.4	4
32	Adaptive extended-state observer-based fault tolerant attitude control for spacecraft with reaction wheels. <i>Acta Astronautica</i> , 2018, 145, 501-514.	3.2	35
33	Velocity-Free Attitude Stabilization of a Nadir-Pointing Underactuated Rigid Spacecraft. <i>Journal of Guidance, Control, and Dynamics</i> , 2018, 41, 1068-1082.	2.8	4
34	Quaternion Invariant Extended Kalman Filtering for Spacecraft Attitude Estimation. <i>Journal of Guidance, Control, and Dynamics</i> , 2018, 41, 863-878.	2.8	23
35	Constrained Kalman Filtering. <i>Journal of Guidance, Control, and Dynamics</i> , 2018, 41, 1209-1213.	2.8	3
36	Low-energy transfers to long-term capture in the Earth-Moon system. <i>Acta Astronautica</i> , 2018, 152, 836-849.	3.2	3

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37	Study of Correction Maneuver for Lunar Flyby Transfers in the Real Ephemeris. Journal of Guidance, Control, and Dynamics, 2018, 41, 2112-2132.	2.8	8
38	Robustness Analysis and Performance Tuning for the Quaternion Proportional-Derivative Attitude Controller. Journal of Guidance, Control, and Dynamics, 2018, 41, 2308-2317.	2.8	11
39	Continuous-time Kalman filtering on the orthogonal group $SO(n)$. International Journal of Robust and Nonlinear Control, 2017, 27, 3466-3487.	3.7	4
40	Control of Asteroid-Hovering Spacecraft with Disturbance Rejection Using Position-Only Measurements. Journal of Guidance, Control, and Dynamics, 2017, 40, 2401-2416.	2.8	35
41	Discrete-Time $SO(n)$ -Constrained Kalman Filtering. Journal of Guidance, Control, and Dynamics, 2017, 40, 28-37.	2.8	9
42	Sun Vector-Based Attitude Determination of Passively Magnetically Stabilized Spacecraft. Journal of Guidance, Control, and Dynamics, 2016, 39, 1551-1562.	2.8	6
43	Nonlinear filtering for autonomous navigation of spacecraft in highly elliptical orbit. Acta Astronautica, 2016, 126, 138-149.	3.2	12
44	Finite-time output feedback attitude control for rigid spacecraft under control input saturation. Journal of the Franklin Institute, 2016, 353, 4442-4470.	3.4	30
45	Observer-Based Adaptive Spacecraft Attitude Control With Guaranteed Performance Bounds. IEEE Transactions on Automatic Control, 2016, 61, 3146-3151.	5.7	35
46	Distributed finite-time velocity-free attitude coordination control for spacecraft formations. Automatica, 2016, 67, 46-53.	5.0	193
47	Quadratically Constrained Least Squares with Aerospace Applications. Journal of Guidance, Control, and Dynamics, 2016, 39, 487-497.	2.8	4
48	Spacecraft Attitude Control Using Magnetic and Mechanical Actuation. Journal of Guidance, Control, and Dynamics, 2016, 39, 564-573.	2.8	24
49	Robust attitude tracking control of spacecraft under control input magnitude and rate saturations. International Journal of Robust and Nonlinear Control, 2016, 26, 799-815.	3.7	72
50	Observer-based spacecraft attitude tracking with guaranteed performance bounds. , 2015, , .		4
51	Generalized Euler Sequences Revisited. Journal of the Astronautical Sciences, 2015, 62, 1-20.	1.5	5
52	Linear-Matrix-Inequality-Based Solution to Wahba's Problem. Journal of Guidance, Control, and Dynamics, 2015, 38, 147-151.	2.8	13
53	$SO(3)$ -constrained Kalman filtering with application to attitude estimation. , 2014, , .		8
54	General Identities for Parameterizations of $SO(3)$ With Applications. Journal of Applied Mechanics, Transactions ASME, 2014, 81, .	2.2	13

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55	Continuous-time norm-constrained Kalman filtering. <i>Automatica</i> , 2014, 50, 2546-2554.	5.0	21
56	Magnetic Attitude Control of a Flexible Satellite. <i>Journal of Guidance, Control, and Dynamics</i> , 2013, 36, 1522-1527.	2.8	28
57	Spacecraft Attitude Tracking with Guaranteed Performance Bounds. <i>Journal of Guidance, Control, and Dynamics</i> , 2013, 36, 1214-1221.	2.8	24
58	Some applications of passivity-based control and invariance principles. <i>IET Control Theory and Applications</i> , 2013, 7, 1039-1048.	2.1	3
59	On the Solution of Wahba's Problem on $S O(n)$. <i>Journal of the Astronautical Sciences</i> , 2013, 60, 1-31.	1.5	14
60	Magnetic Control of Dual-Spin and Bias-Momentum Spacecraft. <i>Journal of Guidance, Control, and Dynamics</i> , 2012, 35, 1158-1168.	2.8	14
61	Differential Drag as a Means of Spacecraft Formation Control. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2011, 47, 1125-1135.	4.7	46
62	A fault-tolerant magnetic spin stabilizing controller for the JC2Sat-FF mission. <i>Acta Astronautica</i> , 2011, 68, 160-171.	3.2	62
63	Adaptive Spacecraft Attitude Control with Actuator Saturation. <i>Journal of Guidance, Control, and Dynamics</i> , 2010, 33, 1692-1696.	2.8	78
64	A Parameter Optimization Approach to Multiple-Objective Controller Design. <i>IEEE Transactions on Control Systems Technology</i> , 2008, 16, 330-339.	5.2	8