

# 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	Distributed finite-time velocity-free attitude coordination control for spacecraft formations. <i>Automatica</i> , 2016, 67, 46-53.	5.0	193
2	Adaptive Spacecraft Attitude Control with Actuator Saturation. <i>Journal of Guidance, Control, and Dynamics</i> , 2010, 33, 1692-1696.	2.8	78
3	Robust attitude tracking control of spacecraft under control input magnitude and rate saturations. <i>International Journal of Robust and Nonlinear Control</i> , 2016, 26, 799-815.	3.7	72
4	Multi-Agent Motion Planning for Dense and Dynamic Environments via Deep Reinforcement Learning. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 3221-3226.	5.1	69
5	A fault-tolerant magnetic spin stabilizing controller for the JC2Sat-FF mission. <i>Acta Astronautica</i> , 2011, 68, 160-171.	3.2	62
6	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
7	Adaptive Fault-Tolerant Spacecraft Pose Tracking With Control Allocation. <i>IEEE Transactions on Control Systems Technology</i> , 2019, 27, 479-494.	5.2	40
8	Observer-Based Adaptive Spacecraft Attitude Control With Guaranteed Performance Bounds. <i>IEEE Transactions on Automatic Control</i> , 2016, 61, 3146-3151.	5.7	35
9	Control of Asteroid-Hovering Spacecraft with Disturbance Rejection Using Position-Only Measurements. <i>Journal of Guidance, Control, and Dynamics</i> , 2017, 40, 2401-2416.	2.8	35
10	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
11	Finite-time output feedback attitude control for rigid spacecraft under control input saturation. <i>Journal of the Franklin Institute</i> , 2016, 353, 4442-4470.	3.4	30
12	Magnetic Attitude Control of a Flexible Satellite. <i>Journal of Guidance, Control, and Dynamics</i> , 2013, 36, 1522-1527.	2.8	28
13	Spacecraft Attitude Tracking with Guaranteed Performance Bounds. <i>Journal of Guidance, Control, and Dynamics</i> , 2013, 36, 1214-1221.	2.8	24
14	Spacecraft Attitude Control Using Magnetic and Mechanical Actuation. <i>Journal of Guidance, Control, and Dynamics</i> , 2016, 39, 564-573.	2.8	24
15	Finite-time spacecraft attitude control under input magnitude and rate saturation. <i>Nonlinear Dynamics</i> , 2020, 99, 2201-2217.	5.2	24
16	Quaternion Invariant Extended Kalman Filtering for Spacecraft Attitude Estimation. <i>Journal of Guidance, Control, and Dynamics</i> , 2018, 41, 863-878.	2.8	23
17	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
18	Continuous-time norm-constrained Kalman filtering. <i>Automatica</i> , 2014, 50, 2546-2554.	5.0	21

#	ARTICLE	IF	CITATIONS
19	Adaptive Fault-Tolerant Attitude Tracking Control for Flexible Spacecraft With Guaranteed Performance Bounds. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2022, 58, 1922-1940.	4.7	21
20	Magnetic Control of Dual-Spin and Bias-Momentum Spacecraft. <i>Journal of Guidance, Control, and Dynamics</i> , 2012, 35, 1158-1168.	2.8	14
21	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
22	INS/CNS navigation system based on multi-star pseudo measurements. <i>Aerospace Science and Technology</i> , 2019, 95, 105506.	4.8	14
23	General Identities for Parameterizations of $SO(3)$ With Applications. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2014, 81, .	2.2	13
24	Linear-Matrix-Inequality-Based Solution to Wahba's Problem. <i>Journal of Guidance, Control, and Dynamics</i> , 2015, 38, 147-151.	2.8	13
25	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
26	Nonlinear filtering for autonomous navigation of spacecraft in highly elliptical orbit. <i>Acta Astronautica</i> , 2016, 126, 138-149.	3.2	12
27	A control allocation scheme for spacecraft attitude stabilization based on distributed average consensus. <i>Aerospace Science and Technology</i> , 2020, 106, 106173.	4.8	12
28	Robustness Analysis and Performance Tuning for the Quaternion Proportional-Derivative Attitude Controller. <i>Journal of Guidance, Control, and Dynamics</i> , 2018, 41, 2308-2317.	2.8	11
29	Station-keeping strategy for real translunar libration point orbits using continuous thrust. <i>Aerospace Science and Technology</i> , 2019, 94, 105376.	4.8	11
30	Force-Based Algorithm for Motion Planning of Large Agent. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 654-665.	9.5	11
31	Discrete-Time $SO(n)$ -Constrained Kalman Filtering. <i>Journal of Guidance, Control, and Dynamics</i> , 2017, 40, 28-37.	2.8	9
32	Planar near-Earth asteroids in resonance with the Earth. <i>Icarus</i> , 2019, 333, 52-60.	2.5	9
33	Quantification of attitude effects on orbital dynamics near asteroids. <i>Acta Astronautica</i> , 2020, 167, 467-482.	3.2	9
34	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
35	A Parameter Optimization Approach to Multiple-Objective Controller Design. <i>IEEE Transactions on Control Systems Technology</i> , 2008, 16, 330-339.	5.2	8
36	$SO(3)$ -constrained Kalman filtering with application to attitude estimation. , 2014, , .		8

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37	Study of Correction Maneuver for Lunar Flyby Transfers in the Real Ephemeris. <i>Journal of Guidance, Control, and Dynamics</i> , 2018, 41, 2112-2132.	2.8	8
38	Dissipativity Properties of Nonlinear Systems Under Network Constraints. <i>IEEE Transactions on Automatic Control</i> , 2020, 65, 2708-2715.	5.7	8
39	Transfers to lunar libration point orbits. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019, 74, 180-200.	3.3	7
40	Distributed optimal control allocation for 6-dof spacecraft with redundant thrusters. <i>Aerospace Science and Technology</i> , 2021, 118, 106971.	4.8	7
41	Sun Vector-Based Attitude Determination of Passively Magnetically Stabilized Spacecraft. <i>Journal of Guidance, Control, and Dynamics</i> , 2016, 39, 1551-1562.	2.8	6
42	Magnetic control without attitude determination for spinning spacecraft. <i>Acta Astronautica</i> , 2020, 169, 108-123.	3.2	6
43	Generalized Euler Sequences Revisited. <i>Journal of the Astronautical Sciences</i> , 2015, 62, 1-20.	1.5	5
44	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
45	A new understanding of L4 and L5 axial orbits through the torus structure. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 5343-5352.	4.4	5
46	Robust coordination control of a space manipulator to detumble a non-cooperative target. <i>Acta Astronautica</i> , 2021, 179, 266-279.	3.2	5
47	Optimal Powered Aerogravity-Assist Trajectories. <i>Journal of Guidance, Control, and Dynamics</i> , 2021, 44, 151-162.	2.8	5
48	Observer-based spacecraft attitude tracking with guaranteed performance bounds. , 2015, , .		4
49	Quadratically Constrained Least Squares with Aerospace Applications. <i>Journal of Guidance, Control, and Dynamics</i> , 2016, 39, 487-497.	2.8	4
50	Continuous-time Kalman filtering on the orthogonal group $O(n)$ . <i>International Journal of Robust and Nonlinear Control</i> , 2017, 27, 3466-3487.	3.7	4
51	Short-term capture of the Earth-Moon system. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 5464-5478.	4.4	4
52	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
53	Velocity-free spacecraft attitude stabilization using two control torques. <i>Automatica</i> , 2019, 109, 108553.	5.0	4
54	Powered Swing-By with Continuous Thrust. <i>Journal of Guidance, Control, and Dynamics</i> , 2020, 43, 111-121.	2.8	4

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55	Real-Time Autonomous Obstacle Avoidance for Fixed-Wing UAVs Using a Dynamic Model. <i>Journal of Aerospace Engineering</i> , 2020, 33, .	1.4	4
56	Orbital analysis of small bodies in co-orbital motion with Jupiter through the torus structure. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 2183-2197.	4.4	4
57	Trajectory correction for lunar flyby transfers to libration point orbits using continuous thrust. <i>Astrodynamics</i> , 2022, 6, 285-300.	2.4	4
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	Constrained Kalman Filtering. <i>Journal of Guidance, Control, and Dynamics</i> , 2018, 41, 1209-1213.	2.8	3
60	Low-energy transfers to long-term capture in the Earth-Moon system. <i>Acta Astronautica</i> , 2018, 152, 836-849.	3.2	3
61	Star Centroid Positioning Error Correction Aided by Gyroscope Output in INS and CNS. <i>Journal of Aerospace Engineering</i> , 2020, 33, .	1.4	3
62	Lunar flyby transfers to L5 axial orbit. <i>Acta Astronautica</i> , 2021, 180, 516-526.	3.2	3
63	Magnetic spacecraft attitude stabilization with two torquers. <i>Acta Astronautica</i> , 2022, 192, 157-167.	3.2	3
64	Decentralised event-based synchronisation and control of spacecraft. <i>IET Control Theory and Applications</i> , 2019, 13, 2694-2701.	2.1	2