

Hirohisa Kojima

List of Publications by Year in descending order

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papers

585
citations

623734

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times ranked

285
citing authors

#	ARTICLE	IF	CITATIONS
1	Control Moment Gyro Singularity-Avoidance Steering Control Based on Singular-Surface Cost Function. <i>Journal of Guidance, Control, and Dynamics</i> , 2010, 33, 1442-1450.	2.8	50
2	Stability analysis of in-plane and out-of-plane periodic motions of electrodynamic tether system in inclined elliptic orbit. <i>Acta Astronautica</i> , 2009, 65, 477-488.	3.2	40
3	Adaptive Deflection-Limiting Control for Slewing Flexible Space Structures. <i>Journal of Guidance, Control, and Dynamics</i> , 2007, 30, 61-67.	2.8	39
4	Experimental study on dynamics and control of tethered satellite systems with climber. <i>Acta Astronautica</i> , 2011, 69, 96-108.	3.2	37
5	Spacecraft attitude maneuver using two single-gimbal control moment gyros. <i>Acta Astronautica</i> , 2013, 84, 88-98.	3.2	37
6	Sounding rocket experiment of bare electrodynamic tether system. <i>Acta Astronautica</i> , 2009, 64, 313-324.	3.2	32
7	Mission-function control of tethered satellite/climber system. <i>Acta Astronautica</i> , 2015, 106, 24-32.	3.2	31
8	Singularity analysis and steering control laws for adaptive-skew pyramid-type control moment gyros. <i>Acta Astronautica</i> , 2013, 85, 120-137.	3.2	27
9	Trajectories of in-plane periodic solutions of tethered satellite system projected on van der Pol planes. <i>Acta Astronautica</i> , 2011, 68, 1024-1030.	3.2	24
10	Switching delayed feedback control for an electrodynamic tether system in an inclined elliptic orbit. <i>Acta Astronautica</i> , 2010, 66, 1072-1080.	3.2	23
11	Study on acceptable offsets of ejected nets from debris center for successful capture of debris. <i>Advances in Space Research</i> , 2020, 66, 450-461.	2.6	23
12	Solar Sail Orbital Control Using Reflectivity Variations near the Earth-Moon L2 Point. <i>Journal of Guidance, Control, and Dynamics</i> , 2018, 41, 417-430.	2.8	17
13	Experimental Verification of Periodic Libration of Tethered Satellite System in Elliptic Orbit. <i>Journal of Guidance, Control, and Dynamics</i> , 2011, 34, 614-618.	2.8	15
14	Nonlinear Control of a Double Pendulum Electrodynamic Tether System. <i>Journal of Spacecraft and Rockets</i> , 2007, 44, 280-284.	1.9	14
15	Calculation and fitting of boundaries between elliptic and hyperbolic singularities of pyramid-type control moment gyros. <i>Acta Astronautica</i> , 2014, 104, 33-44.	3.2	14
16	Stabilization of Angular Velocity of Asymmetrical Rigid Body Using Two Constant Torques. <i>Journal of Guidance, Control, and Dynamics</i> , 2007, 30, 1163-1168.	2.8	13
17	Spherical gyroscopic moment stabilizer for attitude control of microsatellites. <i>Acta Astronautica</i> , 2018, 143, 9-15.	3.2	11
18	Receding Horizon Control on Steering of Control Moment Gyro for Fast Attitude Maneuver. <i>Transactions of the Japan Society for Aeronautical and Space Sciences</i> , 2009, 52, 1-10.	0.7	10

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19	Experimental Study on Delayed Feedback Control for Libration of Tethered Satellite System. <i>Journal of Guidance, Control, and Dynamics</i> , 2012, 35, 998-1002.	2.8	10
20	Experimental study on line-of-sight (LOS) attitude control using control moment gyros under micro-gravity environment. <i>Acta Astronautica</i> , 2018, 143, 118-125.	3.2	10
21	Modeling of tape tether vibration and vibration sensing using smart film sensors. <i>Acta Astronautica</i> , 2015, 107, 97-111.	3.2	9
22	Cluster filtering/control of bending/torsional vibrations of a tape tether using smart-film sensors/actuators. <i>Acta Astronautica</i> , 2016, 123, 213-226.	3.2	9
23	Input-Shaped Link Motion Control of Planar Space Robot Equipped with Flexible Appendage. <i>Transactions of the Japan Society for Aeronautical and Space Sciences</i> , 2012, 55, 205-213.	0.7	8
24	Frequency-tuning input-shaped manifold-based switching control for underactuated space robot equipped with flexible appendages. <i>Acta Astronautica</i> , 2014, 101, 42-54.	3.2	8
25	Estimation of Flyable Regions for Planetary Airships. <i>Journal of Aircraft</i> , 2006, 43, 1177-1181.	2.4	7
26	Libration Synchronization Control of Clustered Electrodynamic Tether System Using Kuramoto Model. <i>Journal of Guidance, Control, and Dynamics</i> , 2011, 34, 706-718.	2.8	7
27	Discovering Method of Control of the "Dzhanibekov's Effect" and Proposing its Applications for the Possible Future Space Missions. <i>Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan</i> , 2019, 17, 72-81.	0.2	7
28	Optimization of fault-tolerant thruster configurations for satellite control. <i>Advances in Space Research</i> , 2018, 61, 1617-1625.	2.6	6
29	Steering control law for double-gimbal scissored-pair CMG. <i>Advances in Space Research</i> , 2020, 66, 771-784.	2.6	6
30	An Adaptive Invariant Manifold-Based Switching Control for a Planar Two-Link Space Robot. <i>Transactions of the Japan Society for Aeronautical and Space Sciences</i> , 2011, 54, 144-152.	0.7	5
31	Model predictive steering control law for double gimbal scissored-pair control moment gyros. <i>Acta Astronautica</i> , 2021, 183, 273-285.	3.2	5
32	Self-position estimation using terrain shadows for precise planetary landing. <i>Acta Astronautica</i> , 2018, 148, 345-354.	3.2	4
33	Enhancement of the attitude dynamics capabilities of the spinning spacecraft using inertial morphing. <i>Aeronautical Journal</i> , 2020, 124, 838-871.	1.6	4
34	Ellipse detection-based visual servo control for capturing upper-stage rocket body. <i>Acta Astronautica</i> , 2021, 182, 295-309.	3.2	4
35	Multi-Objective Trajectory Optimization by a Hierarchical Gradient Algorithm with Fuzzy Decision Logic-Application to Slew Maneuver Problems of a Flexible Space Structure-. <i>Transactions of the Japan Society for Aeronautical and Space Sciences</i> , 2004, 47, 66-74.	0.7	3
36	LMI-Based Sliding Mode Control of an Underactuated Control Moment Gyroscope System. <i>IFAC-PapersOnLine</i> , 2018, 51, 291-296.	0.9	3

#	ARTICLE	IF	CITATIONS
37	Smooth Reference Model Adaptive Sliding-Mode Control for Attitude Synchronization with a Tumbling Satellite. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2004, 47, 616-625.	0.3	2
38	Model Predictive Control for Deflection-Limiting Maneuver of Flexible Structure. Transactions of the Japan Society for Aeronautical and Space Sciences, 2009, 51, 267-274.	0.7	2
39	Stabilisation of in-plane periodic motion of electrodynamic tether system by combining tether length control and current control. International Journal of Space Science and Engineering, 2015, 3, 318.	0.1	2
40	Deployment Control of a Tethered Satellite System for Rendezvous with a Target. Transactions of the Japan Society for Aeronautical and Space Sciences, 2016, 59, 313-322.	0.7	2
41	Set-oriented design of interplanetary low-thrust trajectories using Earth Gravity Assist. Acta Astronautica, 2019, 156, 208-218.	3.2	2
42	Application of order-n formulation to panel deployment problem of a spacecraft. Journal of Guidance, Control, and Dynamics, 1994, 17, 634-636.	2.8	1
43	Adaptive Time-delay Estimated Sliding Mode Control for a Bias Momentum Satellite with Two Reaction Wheels. Transactions of the Japan Society for Aeronautical and Space Sciences, 2019, 62, 236-245.	0.7	1
44	H \hat{a} Feedback-Compensated Minimum-Bending-Moment Control for Flexible Space Structures. Transactions of the Japan Society for Aeronautical and Space Sciences, 2007, 49, 254-257.	0.7	1
45	Spacecraft Attitude Maneuver using Two Single-gimbal Control Moment Gyros. , 2012, , .		0
46	LMI-based control law for variable-speed control moment gyros in flexible spacecraft. International Journal of Space Science and Engineering, 2015, 3, 246.	0.1	0
47	Libration Synchronization Control of Clustered Electrodynamic Tether System Using Kuramoto Model. , 2010, , .		0
48	Optimal Oscillation Suppression Control for Tether Sling-Shot System. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2017, 15, 21-26.	0.2	0
49	Feature-based visual servo control preserving wide-angle properties of super wide-angle lens. International Journal of Space Science and Engineering, 2017, 4, 309.	0.1	0
50	Numerical Simulation of Tape Tether Deployment from a Storage Container. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2018, 16, 604-612.	0.2	0