

Panagiotis Tsiotras

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

225
papers

5,324
citations

38
h-index

65
g-index

257
ext. papers

6,671
ext. citations

2.7
avg, IF

6.24
L-index

#	Paper	IF	Citations
225	Multi-Agent Consensus Subject to Communication and Privacy Constraints. <i>IEEE Transactions on Control of Network Systems</i> , 2021 , 1-1	4	0
224	TIE: Time-Informed Exploration for Robot Motion Planning. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 3585-3591	4.2	1
223	High-Speed Cornering for Autonomous Off-Road Rally Racing. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 29, 485-501	4.8	1
222	Minimum-Fuel Closed-Loop Powered Descent Guidance with Stochastically Derived Throttle Margins. <i>Journal of Guidance, Control, and Dynamics</i> , 2021 , 44, 537-547	2.1	3
221	Bounded Rationality in Learning, Perception, Decision-Making, and Stochastic Games. <i>Studies in Systems, Decision and Control</i> , 2021 , 491-523	0.8	1
220	Information-Theoretic Abstractions for Planning in Agents With Computational Constraints. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 7651-7658	4.2	1
219	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2021 , 1-1	3.7	0
218	Optimal Controller Synthesis and Dynamic Quantizer Switching for Linear-Quadratic-Gaussian Systems. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	1
217	GPU Parallelization of Policy Iteration RRT# 2020 ,		1
216	Safe Optimal Control Under Parametric Uncertainties. <i>IEEE Robotics and Automation Letters</i> , 2020 , 5, 5725-5731	4.2	0
215	C-DOC: Co-State Desensitized Optimal Control 2020 ,		1
214	Q-Tree Search: An Information-Theoretic Approach Toward Hierarchical Abstractions for Agents With Computational Limitations. <i>IEEE Transactions on Robotics</i> , 2020 , 36, 1669-1685	6.5	2
213	Autonomous Planning and Control for Intelligent Vehicles in Traffic. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020 , 21, 2339-2349	6.1	21
212	Dual Quaternions as a Tool for Modeling, Control, and Estimation for Spacecraft Robotic Servicing Missions. <i>Journal of the Astronautical Sciences</i> , 2020 , 67, 595-629	1.1	6
211	Optimal Stochastic Vehicle Path Planning Using Covariance Steering. <i>IEEE Robotics and Automation Letters</i> , 2019 , 4, 2276-2281	4.2	16
210	Multiplayer Pursuit-Evasion Games in Three-Dimensional Flow Fields. <i>Dynamic Games and Applications</i> , 2019 , 9, 1188-1207	1.1	2
209	Stochastic Differential Games: A Sampling Approach via FBSDEs. <i>Dynamic Games and Applications</i> , 2019 , 9, 486-505	1.1	3

208	Optimal Evading Strategies and Task Allocation in Multi-player Pursuit-Evasion Problems. <i>Dynamic Games and Applications</i> , 2019 , 9, 1168-1187	1.1	6
207	Vision-Based Autonomous Path Following Using a Human Driver Control Model With Reliable Input-Feature Value Estimation. <i>IEEE Transactions on Intelligent Vehicles</i> , 2019 , 4, 497-506	5	7
206	Data-driven human driver lateral control models for developing haptic-shared control advanced driver assist systems. <i>Robotics and Autonomous Systems</i> , 2019 , 114, 155-171	3.5	12
205	Input Hard Constrained Optimal Covariance Steering 2019 ,		4
204	Nonlinear Uncertainty Control with Iterative Covariance Steering 2019 ,		8
203	Dynamics and Control of Spacecraft Manipulators with Thrusters and Momentum Exchange Devices. <i>Journal of Guidance, Control, and Dynamics</i> , 2019 , 42, 15-29	2.1	9
202	Optimal Thrust Profile for Planetary Soft Landing Under Stochastic Disturbances. <i>Journal of Guidance, Control, and Dynamics</i> , 2019 , 42, 209-216	2.1	2
201	Advanced planning for autonomous vehicles using reinforcement learning and deep inverse reinforcement learning. <i>Robotics and Autonomous Systems</i> , 2019 , 114, 1-18	3.5	65
200	Minimum-fuel Powered Descent in the Presence of Random Disturbances 2019 ,		5
199	Optimal Covariance Control for Stochastic Systems Under Chance Constraints 2018 , 2, 266-271		27
198	Relative Pose Stabilization using Backstepping Control with Dual Quaternions 2018 ,		1
197	Pursuit-Evasion Problems Involving Two Pursuers and One Evader 2018 ,		3
196	Optimal Evading Strategies for Two-Pursuer/One-Evader Problems. <i>Journal of Guidance, Control, and Dynamics</i> , 2018 , 41, 851-862	2.1	17
195	Optimal Aircraft Trajectories for Wind Energy Extraction. <i>Journal of Guidance, Control, and Dynamics</i> , 2018 , 41, 488-496	2.1	3
194	Spacecraft Trajectory Tracking with Identification of Mass Properties Using Dual Quaternions 2018 ,		3
193	Stochastic L1-optimal control via forward and backward sampling. <i>Systems and Control Letters</i> , 2018 , 118, 101-108	2.4	8
192	Real-Time Trail-Braking Maneuver Generation for Off-Road Vehicle Racing 2018 ,		2
191	A Comparative Study of Data-Driven Human Driver Lateral Control Models 2018 ,		2

190	Trajectory Desensitization in Optimal Control Problems 2018 ,		2
189	Anticipating Human Collision Avoidance Behavior for Safe Robot Reaction 2018 ,		1
188	Modeling of Spacecraft-Mounted Robot Dynamics and Control Using Dual Quaternions 2018 ,		4
187	Dual Quaternion Framework for Modeling of Spacecraft-Mounted Multibody Robotic Systems. <i>Frontiers in Robotics and AI</i> , 2018 , 5, 128	2.8	7
186	Min-Max Differential Dynamic Programming: Continuous and Discrete Time Formulations. <i>Journal of Guidance, Control, and Dynamics</i> , 2018 , 41, 2568-2580	2.1	6
185	Partial attitude synchronization for networks of underactuated spacecraft. <i>Automatica</i> , 2018 , 97, 27-37	5.7	7
184	Toward an Algorithmic Control Theory. <i>Journal of Guidance, Control, and Dynamics</i> , 2017 , 40, 194-196	2.1	21
183	Multiple-Pursuer/One-Evader Pursuit-Evasion Game in Dynamic Flowfields. <i>Journal of Guidance, Control, and Dynamics</i> , 2017 , 40, 1627-1637	2.1	24
182	Sequential pursuit of multiple targets under external disturbances via Zermelo-Voronoi diagrams. <i>Automatica</i> , 2017 , 81, 253-260	5.7	8
181	Nonlinear Driver Parameter Estimation and Driver Steering Behavior Analysis for ADAS Using Field Test Data. <i>IEEE Transactions on Human-Machine Systems</i> , 2017 , 47, 686-699	4.1	17
180	Vehicle modeling and parameter estimation using adaptive limited memory joint-state UKF 2017 ,		5
179	Finite-horizon covariance control of linear time-varying systems 2017 ,		12
178	Hierarchical state abstractions for decision-making problems with computational constraints 2017 ,		6
177	Pursuit-evasion games in dynamic flow fields via reachability set analysis 2017 ,		7
176	UAV Collision Avoidance based on the Solution of the Suicidal Pedestrian Differential Game 2016 ,		9
175	Cooperative Relative Navigation for Space Rendezvous and Proximity Operations using Controlled Active Vision. <i>Journal of Field Robotics</i> , 2016 , 33, 205-228	6.7	9
174	Reduced complexity multi-scale path-planning on probabilistic maps 2016 ,		2
173	Stochastic Game Theoretic trajectory optimization in continuous time 2016 ,		5

172	Game-theoretic and risk-sensitive stochastic optimal control via forward and backward stochastic differential equations 2016 ,		3
171	Partial attitude consensus for underactuated satellite clusters 2016 ,		1
170	A new hybrid sensorimotor driver model with model predictive control 2016 ,		3
169	Incremental sampling-based motion planners using policy iteration methods 2016 ,		6
168	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2016 , 52, 411-422	3.7	29
167	Optimal two-point visual driver model and controller development for driver-assist systems for semi-autonomous vehicles 2016 ,		9
166	Extended Kalman Filter for Spacecraft Pose Estimation Using Dual Quaternions. <i>Journal of Guidance, Control, and Dynamics</i> , 2015 , 38, 1625-1641	2.1	47
165	On the Suicidal Pedestrian Differential Game. <i>Dynamic Games and Applications</i> , 2015 , 5, 297-317	1.1	17
164	Extended Kalman Filter for spacecraft pose estimation using dual quaternions 2015 ,		3
163	Dynamic programming guided exploration for sampling-based motion planning algorithms 2015 ,		17
162	Pursuit evasion game of two players under an external flow field 2015 ,		9
161	Adaptive Position and Attitude-Tracking Controller for Satellite Proximity Operations Using Dual Quaternions. <i>Journal of Guidance, Control, and Dynamics</i> , 2015 , 38, 566-577	2.1	120
160	Attitude Control 2015 , 1-18		
159	Game Theoretic continuous time Differential Dynamic Programming 2015 ,		9
158	Interpolation and parallel adjustment of center-sampled trees with new balancing constraints. <i>Visual Computer</i> , 2015 , 31, 1351-1363	2.3	1
157	Machine learning guided exploration for sampling-based motion planning algorithms 2015 ,		11
156	Multi-scale perception and path planning on probabilistic obstacle maps 2015 ,		4
155	Curvature-Bounded Traversability Analysis in Motion Planning for Mobile Robots. <i>IEEE Transactions on Robotics</i> , 2014 , 30, 1011-1019	6.5	14

154	2014,		17
153	Efficient Closed-Loop Detection and Pose Estimation for Vision-Only Relative Localization in Space with A Cooperative Target 2014,		2
152	Information-theoretic stochastic optimal control via incremental sampling-based algorithms 2014,		3
151	An asymmetric version of the two car pursuit-evasion game 2014,		8
150	An optimal evader strategy in a two-pursuer one-evader problem 2014,		4
149	Pose-Tracking Controller for Satellites with Time-Varying Inertia 2014,		3
148	Real-Time Near-Optimal Feedback Control of Aggressive Vehicle Maneuvers. <i>Lecture Notes in Control and Information Sciences</i> , 2014 , 109-129	0.5	4
147	Optimal Synthesis of the Zermelo-Markov-Dubins Problem in a Constant Drift Field. <i>Journal of Optimization Theory and Applications</i> , 2013 , 156, 469-492	1.6	26
146	Optimal Feedback Guidance of a Small Aerial Vehicle in a Stochastic Wind. <i>Journal of Guidance, Control, and Dynamics</i> , 2013 , 36, 975-985	2.1	34
145	Analysis of Energy-Optimal Aircraft Landing Operation Trajectories. <i>Journal of Guidance, Control, and Dynamics</i> , 2013 , 36, 833-845	2.1	13
144	On-Line Path Generation for Unmanned Aerial Vehicles Using B-Spline Path Templates. <i>Journal of Guidance, Control, and Dynamics</i> , 2013 , 36, 1642-1653	2.1	37
143	Optimal motion planning with the half-car dynamical model for autonomous high-speed driving 2013,		25
142	Time-Optimal Path Following for Fixed-Wing Aircraft. <i>Journal of Guidance, Control, and Dynamics</i> , 2013 , 36, 83-95	2.1	15
141	Optimal partitioning for spatiotemporal coverage in a drift field. <i>Automatica</i> , 2013 , 49, 2064-2073	5.7	23
140	Simultaneous position and attitude control without linear and angular velocity feedback using dual quaternions 2013,		25
139	Time-optimal vehicle posture control to mitigate unavoidable collisions using conventional control inputs 2013,		9
138	Use of relaxation methods in sampling-based algorithms for optimal motion planning 2013,		78
137	Speed profile optimization for optimal path tracking 2013,		2

136	A sequential pursuer-target assignment problem under external disturbances 2013 ,		1
135	Adaptive Model-Independent Tracking of Rigid Body Position and Attitude Motion with Mass and Inertia Matrix Identification using Dual Quaternions 2013 ,		12
134	Fuel-Efficient Flight Optimization for ATC Operations During Descent and Approach Phases 2013 ,		1
133	Robust Feature Detection, Acquisition and Tracking for Relative Navigation in Space with a Known Target 2013 ,		10
132	Rigid body motion tracking without linear and angular velocity feedback using dual quaternions 2013 ,		17
131	A Note on the Consensus Protocol with Some Applications to Agent Orbit Pattern Generation. <i>Springer Tracts in Advanced Robotics</i> , 2013 , 345-358	0.5	2
130	Hierarchical Motion Planning With Dynamical Feasibility Guarantees for Mobile Robotic Vehicles. <i>IEEE Transactions on Robotics</i> , 2012 , 28, 379-395	6.5	49
129	Relay pursuit of a maneuvering target using dynamic Voronoi diagrams. <i>Automatica</i> , 2012 , 48, 2213-2220	5.7	111
128	A Beamlet-Based Graph Structure for Path Planning Using Multiscale Information. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 1166-1178	5.9	15
127	Development and Evaluation of an Automated Path Planning Aid. <i>Journal of Aircraft</i> , 2012 , 49, 1774-1785	5.6	4
126	Multiresolution Hierarchical Path-Planning for Small UAVs Using Wavelet Decompositions. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2012 , 66, 505-522	2.9	9
125	Hierarchical motion planning with kinodynamic feasibility guarantees: Local trajectory planning via model predictive control 2012 ,		7
124	Multiresolution motion planning for autonomous agents via wavelet-based cell decompositions. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2012 , 42, 1455-69		16
123	Feedback Navigation in an Uncertain Flowfield and Connections with Pursuit Strategies. <i>Journal of Guidance, Control, and Dynamics</i> , 2012 , 35, 1268-1279	2.1	21
122	The Markov-Dubins problem in the presence of a stochastic drift field 2012 ,		4
121	On the Computational Complexity of Peer-to-Peer Satellite Refueling Strategies. <i>Infor</i> , 2012 , 50, 88-94	0.5	1
120	Multi-Scale LPA* with low worst-case complexity guarantees 2011 ,		2
119	Incremental Multi-Scale Search Algorithm for Dynamic Path Planning With Low Worst-Case Complexity. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2011 , 41, 1556-70		24

118	Steady-state drifting stabilization of RWD vehicles. <i>Control Engineering Practice</i> , 2011 , 19, 1363-1376	3.9	57
117	Optimal Synthesis of the Asymmetric Sinistral/Dextral Markov-Dubins Problem. <i>Journal of Optimization Theory and Applications</i> , 2011 , 150, 233-250	1.6	18
116	Optimal pursuer and moving target assignment using dynamic Voronoi diagrams 2011 ,		3
115	Vehicle posture control through aggressive maneuvering for mitigation of T-bone collisions 2011 ,		10
114	Extended multi-agent consensus protocols for the generation of geometric patterns in the plane 2011 ,		11
113	A quadratic programming approach to path smoothing 2011 ,		2
112	On the relay pursuit of a maneuvering target by a group of pursuers 2011 ,		5
111	Density Functions for Mesh Refinement in Numerical Optimal Control. <i>Journal of Guidance, Control, and Dynamics</i> , 2011 , 34, 271-277	2.1	59
110	Time-optimal synthesis for the Zermelo-Markov-Dubins problem: The constant wind case 2010 ,		15
109	On the existence and synthesis of curvature-bounded paths inside nonuniform rectangular channels 2010 ,		4
108	Multi-resolution path planning: Theoretical analysis, efficient implementation, and extensions to dynamic environments 2010 ,		7
107	Network Flow Formulation for Cooperative Peer-to-Peer Refueling Strategies. <i>Journal of Guidance, Control, and Dynamics</i> , 2010 , 33, 1539-1549	2.1	18
106	Kinematic feasibility guarantees in geometric path planning using history-based transition costs over cell decompositions 2010 ,		2
105	Steady-state cornering equilibria and stabilisation for a vehicle during extreme operating conditions. <i>International Journal of Vehicle Autonomous Systems</i> , 2010 , 8, 217	0.4	35
104	Optimal pursuit of moving targets using dynamic Voronoi diagrams 2010 ,		45
103	Time-Optimal Parameterization of Geometric Path for Fixed-Wing Aircraft 2010 ,		9
102	Minimum-Time Paths for a Small Aircraft in the Presence of Regionally-Varying Strong Winds 2010 ,		3
101	Lyapunov-based exact stability analysis and synthesis for linear single-parameter dependent systems. <i>International Journal of Control</i> , 2010 , 83, 1823-1838	1.5	12

100	The Zermelo-Voronoi Diagram: a dynamic partition problem 2010 ,		2
99	Beamlet-like data processing for accelerated path-planning using multiscale information of the environment 2010 ,		7
98	The Zermelo-Voronoi diagram: A dynamic partition problem. <i>Automatica</i> , 2010 , 46, 2059-2067	5:7	37
97	Shortest distance problems in graphs using history-dependent transition costs with application to kinodynamic path planning 2009 ,		6
96	On the generation of nearly optimal, planar paths of bounded curvature and bounded curvature gradient 2009 ,		10
95	On steady-state cornering equilibria for wheeled vehicles with drift 2009 ,		18
94	The asymmetric sinistral/dextral Markov-Dubins problem 2009 ,		2
93	Real-time Implementation and Validation of a New Hierarchical Path Planning Scheme of UAVs via Hardware-in-the-Loop Simulation. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2009 , 54, 163-181	2:9	25
92	Leader-follower cooperative attitude control of multiple rigid bodies. <i>Systems and Control Letters</i> , 2009 , 58, 429-435	2:4	241
91	Hohmann-Hohmann and Hohmann-Phasing Cooperative Rendezvous Maneuvers. <i>Journal of the Astronautical Sciences</i> , 2009 , 57, 393-417	1:1	10
90	Sequential Multiresolution Trajectory Optimization Schemes for Problems with Moving Targets. <i>Journal of Guidance, Control, and Dynamics</i> , 2009 , 32, 488-499	2:1	2
89	A 5-dof Experimental Platform for Spacecraft Rendezvous and Docking 2009 ,		15
88	Pilot feedback for an automated planning aid system in the cockpit 2009 ,		3
87	A Hierarchical Multiresolution Adaptive Mesh Refinement for the Solution of Evolution PDEs. <i>SIAM Journal of Scientific Computing</i> , 2009 , 31, 1221-1248	2:6	5
86	Image segmentation on cell-center sampled quadtree and octree grids 2009 ,		6
85	On-line Path Generation for Small Unmanned Aerial Vehicles Using B-Spline Path Templates 2008 ,		23
84	Multiresolution Path Planning Via Sector Decompositions Compatible to On-Board Sensor Data 2008 ,		8
83	A Cooperative P2P Refueling Strategy for Circular Satellite Constellations 2008 ,		3

82	Optimality Properties and Driver Input Parameterization for Trail-braking Cornering. <i>European Journal of Control</i> , 2008 , 14, 308-320	2.5	48
81	Adaptive spacecraft attitude tracking control with actuator uncertainties. <i>Journal of the Astronautical Sciences</i> , 2008 , 56, 251-268	1.1	27
80	Robust design of a spacecraft attitude tracking control system with actuator uncertainties 2008 ,		4
79	Trajectory Optimization Using Multiresolution Techniques. <i>Journal of Guidance, Control, and Dynamics</i> , 2008 , 31, 1424-1436	2.1	66
78	On-line, kinodynamic trajectory generation through rectangular channels using path and motion primitives 2008 ,		1
77	Multiresolution path planning with wavelets: A local replanning approach 2008 ,		19
76	Egalitarian Peer-to-Peer Satellite Refueling Strategy. <i>Journal of Spacecraft and Rockets</i> , 2008 , 45, 608-618	5	26
75	Multiresolution on-line path planning for small unmanned aerial vehicles 2008 ,		20
74	Leader-follower cooperative attitude control of multiple rigid bodies 2008 ,		4
73	Bank-to-Turn Control for a Small UAV using Backstepping and Parameter Adaptation. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 4406-4411		18
72	Trail-Braking Driver Input Parameterization for General Corner Geometry 2008 ,		5
71	Minimum-Time Travel for a Vehicle with Acceleration Limits: Theoretical Analysis and Receding-Horizon Implementation. <i>Journal of Optimization Theory and Applications</i> , 2008 , 138, 275-296	1.6	61
70	Real-time Implementation and Validation of a New Hierarchical Path Planning Scheme of UAVs via Hardware-in-the-Loop Simulation 2008 , 163-181		6
69	A hierarchical on-line path planning scheme using wavelets 2007 ,		9
68	Modeling aggressive maneuvers on loose surfaces: The cases of Trail-Braking and Pendulum-Turn 2007 ,		25
67	Inertial Attitude and Position Reference System Development for a Small UAV 2007 ,		30
66	Modeling and Hardware-in-the-Loop Simulation for a Small Unmanned Aerial Vehicle 2007 ,		45
65	Beyond quadtrees: Cell decompositions for path planning using wavelet transforms 2007 ,		9

64	Redundant wavelet processing on the half-axis with applications to signal denoising with small delays: theory and experiments. <i>International Journal of Adaptive Control and Signal Processing</i> , 2006 , 20, 447-474	2.8	
63	Laplacian cooperative attitude control of multiple rigid bodies 2006 ,		9
62	Spacecraft Line-of-Sight Control Using a Single Variable-Speed Control Moment Gyro. <i>Journal of Guidance, Control, and Dynamics</i> , 2006 , 29, 1295-1308	2.1	44
61	Asynchronous optimal mixed P2P satellite refueling strategies. <i>Journal of the Astronautical Sciences</i> , 2006 , 54, 543-565	1.1	18
60	An approach for computing the exact stability domain for a class of LTI parameter dependent systems. <i>International Journal of Control</i> , 2006 , 79, 1046-1061	1.5	10
59	Laplacian Cooperative Attitude Control of Multiple Rigid Bodies 2006 ,		7
58	Dynamic tyre friction models for combined longitudinal and lateral vehicle motion. <i>Vehicle System Dynamics</i> , 2005 , 43, 3-29	2.8	70
57	Low-bias control of AMB subject to voltage saturation: state-feedback and observer designs. <i>IEEE Transactions on Control Systems Technology</i> , 2005 , 13, 262-273	4.8	36
56	Adaptive Spacecraft Attitude Tracking Control with Actuator Uncertainties 2005 ,		18
55	Comparison Between Peer-to-Peer and Single-Spacecraft Refueling Strategies for Spacecraft in Circular Orbits 2005 ,		13
54	A combined application of H_{∞} loop shaping and μ -synthesis to control high-speed flywheels. <i>IEEE Transactions on Control Systems Technology</i> , 2005 , 13, 766-777	4.8	26
53	Peer-to-Peer Refueling for Circular Satellite Constellations. <i>Journal of Guidance, Control, and Dynamics</i> , 2005 , 28, 1220-1230	2.1	43
52	Singularity Analysis of Variable Speed Control Moment Gyros. <i>Journal of Guidance, Control, and Dynamics</i> , 2004 , 27, 374-386	2.1	98
51	A LuGre Tire Friction Model With Exact Aggregate Dynamics. <i>Vehicle System Dynamics</i> , 2004 , 42, 195-210	2.8	19
50	Singularity Analysis and Avoidance of Variable-Speed Control Moment Gyros -- Part I : No Power Constraint Case 2004 ,		4
49	Singularity Analysis and Avoidance of Variable-Speed Control Moment Gyros -- Part II : Power Constraint Case 2004 ,		5
48	An Experimental Comparison of CMG Steering Control Laws 2004 ,		14
47	Optimal Two-Impulse Rendezvous Using Multiple-Revolution Lambert Solutions. <i>Journal of Guidance, Control, and Dynamics</i> , 2003 , 26, 50-61	2.1	89

46	New results for the analysis of linear systems with time-invariant delays. <i>International Journal of Robust and Nonlinear Control</i> , 2003 , 13, 1149-1175	3.6	34
45	A 3-DoF Experimental Test-Bed for Integrated Attitude Dynamics and Control Research 2003 ,		16
44	Zero- and low-bias control designs for active magnetic bearings. <i>IEEE Transactions on Control Systems Technology</i> , 2003 , 11, 889-904	4.8	48
43	Dynamic Friction Models for Road/Tire Longitudinal Interaction. <i>Vehicle System Dynamics</i> , 2003 , 39, 189-226	2.35	210
42	Spacecraft Angular Velocity Stabilization Using a Single-Gimbal Variable Speed Control Moment Gyro 2003 ,		6
41	Spacecraft Adaptive Attitude and Power Tracking with Variable Speed Control Moment Gyroscopes. <i>Journal of Guidance, Control, and Dynamics</i> , 2002 , 25, 1081-1090	2.1	121
40	Optimal Scheduling for Servicing Multiple Satellites in a Circular Constellation 2002 ,		21
39	Stability analysis of LPV time-delayed systems. <i>International Journal of Control</i> , 2002 , 75, 538-558	1.5	71
38	Tracking Rigid Body Motion Using Thrusters and Momentum Wheels. <i>Journal of the Astronautical Sciences</i> , 2002 , 50, 311-323	1.1	16
37	Satellite Attitude Control and Power Tracking with Energy/Momentum Wheels. <i>Journal of Guidance, Control, and Dynamics</i> , 2001 , 24, 23-34	2.1	98
36	Stability of time-delay systems: equivalence between Lyapunov and scaled small-gain conditions. <i>IEEE Transactions on Automatic Control</i> , 2001 , 46, 482-486	5.9	145
35	Asymptotic stability of linear systems with multiple time-invariant state-delays. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2000 , 33, 91-96		1
34	Control design for chained-form systems with bounded inputs. <i>Systems and Control Letters</i> , 2000 , 39, 123-131	2.4	58
33	Control of underactuated spacecraft with bounded inputs. <i>Automatica</i> , 2000 , 36, 1153-1169	5.7	131
32	Control of Spacecraft Subject to Actuator Failures: State-of-the-Art and Open Problems. <i>Journal of the Astronautical Sciences</i> , 2000 , 48, 337-358	1.1	53
31	Detumbling and partial attitude stabilization of a rigid spacecraft under actuator failure 2000 ,		8
30	Time-Optimal Control of Axisymmetric Rigid Spacecraft Using Two Controls. <i>Journal of Guidance, Control, and Dynamics</i> , 1999 , 22, 682-694	2.1	78
29	Inverse optimal stabilization of a rigid spacecraft. <i>IEEE Transactions on Automatic Control</i> , 1999 , 44, 1042-1049	5.19	213

28	Optimal Control of Rigid Body Angular Velocity with Quadratic Cost. <i>Journal of Optimization Theory and Applications</i> , 1998 , 96, 507-532	1.6	3
27	An L2 disturbance attenuation solution to the nonlinear benchmark problem. <i>International Journal of Robust and Nonlinear Control</i> , 1998 , 8, 311-330	3.6	45
26	Optimal control of a magnetic bearing without bias flux using finite voltage. <i>Optimal Control Applications and Methods</i> , 1998 , 19, 227-246	1.7	3
25	Exponentially convergent control laws for nonholonomic systems in power form. <i>Systems and Control Letters</i> , 1998 , 35, 87-95	2.4	51
24	Further passivity results for the attitude control problem. <i>IEEE Transactions on Automatic Control</i> , 1998 , 43, 1597-1600	5.9	194
23	Asymptotic properties of higher order Cayley transforms 1998 ,		2
22	Tracking rigid body motion using thrusters and momentum wheels 1998 ,		6
21	Higher-Order Cayley Transforms with Applications to Attitude Representations. <i>Journal of Guidance, Control, and Dynamics</i> , 1997 , 20, 528-534	2.1	44
20	Optimal Regulation and Passivity Results for Axisymmetric Rigid Bodies Using Two Controls. <i>Journal of Guidance, Control, and Dynamics</i> , 1997 , 20, 457-463	2.1	24
19	Reduced Effort Control Laws for Underactuated Rigid Spacecraft. <i>Journal of Guidance, Control, and Dynamics</i> , 1997 , 20, 1089-1095	2.1	34
18	Global Asymptotic Stabilization of a Spinning Top With Torque Actuators Using Stereographic Projection. <i>Journal of Dynamical and Control Systems</i> , 1997 , 7, 215-233		4
17	Invariant manifold techniques for control of underactuated mechanical systems 1997 ,		6
16	Comments on a new parameterization of the attitude kinematics 1996 ,		3
15	Higher order Cayley transforms with applications to attitude representations 1996 ,		1
14	Stabilization and optimality results for the attitude control problem. <i>Journal of Guidance, Control, and Dynamics</i> , 1996 , 19, 772-779	2.1	222
13	Optimal mass for aerobraking tethers. <i>Acta Astronautica</i> , 1995 , 35, 489-500	2.9	8
12	Suboptimal Control of Rigid Body Motion with a Quadratic Cost. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1995 , 28, 503-508		1
11	Principal rotation representations of proper $N \times N$ orthogonal matrices. <i>International Journal of Engineering Science</i> , 1995 , 33, 2277-2295	5.7	49

10	A novel approach to the attitude control of axisymmetric spacecraft. <i>Automatica</i> , 1995 , 31, 1099-1112	5.7	86
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