

# Panagiotis Tsiotras

## List of Publications by Citations

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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	Leader-follower cooperative attitude control of multiple rigid bodies. <i>Systems and Control Letters</i> , <b>2009</b> , 58, 429-435	2.4	241
224	Stabilization and optimality results for the attitude control problem. <i>Journal of Guidance, Control, and Dynamics</i> , <b>1996</b> , 19, 772-779	2.1	222
223	Inverse optimal stabilization of a rigid spacecraft. <i>IEEE Transactions on Automatic Control</i> , <b>1999</b> , 44, 1042-1049	5.1049	213
222	Dynamic Friction Models for Road/Tire Longitudinal Interaction. <i>Vehicle System Dynamics</i> , <b>2003</b> , 39, 189-206	2.26	210
221	Further passivity results for the attitude control problem. <i>IEEE Transactions on Automatic Control</i> , <b>1998</b> , 43, 1597-1600	5.9	194
220	Stability of time-delay systems: equivalence between Lyapunov and scaled small-gain conditions. <i>IEEE Transactions on Automatic Control</i> , <b>2001</b> , 46, 482-486	5.9	145
219	Control of underactuated spacecraft with bounded inputs. <i>Automatica</i> , <b>2000</b> , 36, 1153-1169	5.7	131
218	Spacecraft Adaptive Attitude and Power Tracking with Variable Speed Control Moment Gyroscopes. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2002</b> , 25, 1081-1090	2.1	121
217	Adaptive Position and Attitude-Tracking Controller for Satellite Proximity Operations Using Dual Quaternions. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2015</b> , 38, 566-577	2.1	120
216	Relay pursuit of a maneuvering target using dynamic Voronoi diagrams. <i>Automatica</i> , <b>2012</b> , 48, 2213-2220	5.7	111
215	Singularity Analysis of Variable Speed Control Moment Gyros. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2004</b> , 27, 374-386	2.1	98
214	Satellite Attitude Control and Power Tracking with Energy/Momentum Wheels. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2001</b> , 24, 23-34	2.1	98
213	Optimal Two-Impulse Rendezvous Using Multiple-Revolution Lambert Solutions. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2003</b> , 26, 50-61	2.1	89
212	A novel approach to the attitude control of axisymmetric spacecraft. <i>Automatica</i> , <b>1995</b> , 31, 1099-1112	5.7	86
211	Use of relaxation methods in sampling-based algorithms for optimal motion planning <b>2013</b> ,		78
210	Time-Optimal Control of Axisymmetric Rigid Spacecraft Using Two Controls. <i>Journal of Guidance, Control, and Dynamics</i> , <b>1999</b> , 22, 682-694	2.1	78
209	Stability analysis of LPV time-delayed systems. <i>International Journal of Control</i> , <b>2002</b> , 75, 538-558	1.5	71

208	Dynamic tyre friction models for combined longitudinal and lateral vehicle motion. <i>Vehicle System Dynamics</i> , <b>2005</b> , 43, 3-29	2.8	70
207	Spin-axis stabilization of symmetric spacecraft with two control torques. <i>Systems and Control Letters</i> , <b>1994</b> , 23, 395-402	2.4	67
206	Trajectory Optimization Using Multiresolution Techniques. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2008</b> , 31, 1424-1436	2.1	66
205	Advanced planning for autonomous vehicles using reinforcement learning and deep inverse reinforcement learning. <i>Robotics and Autonomous Systems</i> , <b>2019</b> , 114, 1-18	3.5	65
204	Minimum-Time Travel for a Vehicle with Acceleration Limits: Theoretical Analysis and Receding-Horizon Implementation. <i>Journal of Optimization Theory and Applications</i> , <b>2008</b> , 138, 275-296	1.6	61
203	Density Functions for Mesh Refinement in Numerical Optimal Control. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2011</b> , 34, 271-277	2.1	59
202	Control design for chained-form systems with bounded inputs. <i>Systems and Control Letters</i> , <b>2000</b> , 39, 123-131	2.4	58
201	Steady-state drifting stabilization of RWD vehicles. <i>Control Engineering Practice</i> , <b>2011</b> , 19, 1363-1376	3.9	57
200	Control of Spacecraft Subject to Actuator Failures: State-of-the-Art and Open Problems. <i>Journal of the Astronautical Sciences</i> , <b>2000</b> , 48, 337-358	1.1	53
199	Exponentially convergent control laws for nonholonomic systems in power form. <i>Systems and Control Letters</i> , <b>1998</b> , 35, 87-95	2.4	51
198	Hierarchical Motion Planning With Dynamical Feasibility Guarantees for Mobile Robotic Vehicles. <i>IEEE Transactions on Robotics</i> , <b>2012</b> , 28, 379-395	6.5	49
197	Principal rotation representations of proper $N \times N$ orthogonal matrices. <i>International Journal of Engineering Science</i> , <b>1995</b> , 33, 2277-2295	5.7	49
196	Optimality Properties and Driver Input Parameterization for Trail-braking Cornering. <i>European Journal of Control</i> , <b>2008</b> , 14, 308-320	2.5	48
195	Zero- and low-bias control designs for active magnetic bearings. <i>IEEE Transactions on Control Systems Technology</i> , <b>2003</b> , 11, 889-904	4.8	48
194	Extended Kalman Filter for Spacecraft Pose Estimation Using Dual Quaternions. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2015</b> , 38, 1625-1641	2.1	47
193	Optimal pursuit of moving targets using dynamic Voronoi diagrams <b>2010</b> ,		45
192	An L2 disturbance attenuation solution to the nonlinear benchmark problem. <i>International Journal of Robust and Nonlinear Control</i> , <b>1998</b> , 8, 311-330	3.6	45
191	Modeling and Hardware-in-the-Loop Simulation for a Small Unmanned Aerial Vehicle <b>2007</b> ,		45

190	Higher-Order Cayley Transforms with Applications to Attitude Representations. <i>Journal of Guidance, Control, and Dynamics</i> , <b>1997</b> , 20, 528-534	2.1	44
189	Spacecraft Line-of-Sight Control Using a Single Variable-Speed Control Moment Gyro. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2006</b> , 29, 1295-1308	2.1	44
188	Peer-to-Peer Refueling for Circular Satellite Constellations. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2005</b> , 28, 1220-1230	2.1	43
187	On-Line Path Generation for Unmanned Aerial Vehicles Using B-Spline Path Templates. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2013</b> , 36, 1642-1653	2.1	37
186	The Zermelo-Voronoi diagram: A dynamic partition problem. <i>Automatica</i> , <b>2010</b> , 46, 2059-2067	5.7	37
185	A complex analytic solution for the attitude motion of a near-symmetric rigid body under body-fixed torques. <i>Celestial Mechanics and Dynamical Astronomy</i> , <b>1991</b> , 51, 281-301	1.4	37
184	Low-bias control of AMB subject to voltage saturation: state-feedback and observer designs. <i>IEEE Transactions on Control Systems Technology</i> , <b>2005</b> , 13, 262-273	4.8	36
183	Steady-state cornering equilibria and stabilisation for a vehicle during extreme operating conditions. <i>International Journal of Vehicle Autonomous Systems</i> , <b>2010</b> , 8, 217	0.4	35
182	Optimal Feedback Guidance of a Small Aerial Vehicle in a Stochastic Wind. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2013</b> , 36, 975-985	2.1	34
181	Reduced Effort Control Laws for Underactuated Rigid Spacecraft. <i>Journal of Guidance, Control, and Dynamics</i> , <b>1997</b> , 20, 1089-1095	2.1	34
180	New results for the analysis of linear systems with time-invariant delays. <i>International Journal of Robust and Nonlinear Control</i> , <b>2003</b> , 13, 1149-1175	3.6	34
179	Inertial Attitude and Position Reference System Development for a Small UAV <b>2007</b> ,		30
178	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , <b>2016</b> , 52, 411-422	3.7	29
177	Optimal Covariance Control for Stochastic Systems Under Chance Constraints <b>2018</b> , 2, 266-271		27
176	Adaptive spacecraft attitude tracking control with actuator uncertainties. <i>Journal of the Astronautical Sciences</i> , <b>2008</b> , 56, 251-268	1.1	27
175	Optimal Synthesis of the Zermelo-Markov-Dubins Problem in a Constant Drift Field. <i>Journal of Optimization Theory and Applications</i> , <b>2013</b> , 156, 469-492	1.6	26
174	Egalitarian Peer-to-Peer Satellite Refueling Strategy. <i>Journal of Spacecraft and Rockets</i> , <b>2008</b> , 45, 608-618	1.5	26
173	A combined application of H/sub /spl infin// loop shaping and /spl mu/-synthesis to control high-speed flywheels. <i>IEEE Transactions on Control Systems Technology</i> , <b>2005</b> , 13, 766-777	4.8	26

172	New Control Laws for the Attitude Stabilization of Rigid Bodies. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>1994</b> , 27, 321-326		26
171	Optimal motion planning with the half-car dynamical model for autonomous high-speed driving <b>2013</b> ,		25
170	Simultaneous position and attitude control without linear and angular velocity feedback using dual quaternions <b>2013</b> ,		25
169	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> , <b>2009</b> , 54, 163-181	2.9	25
168	Modeling aggressive maneuvers on loose surfaces: The cases of Trail-Braking and Pendulum-Turn <b>2007</b> ,		25
167	Multiple-Pursuer/One-Evader Pursuit-Evasion Game in Dynamic Flowfields. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2017</b> , 40, 1627-1637	2.1	24
166	Incremental Multi-Scale Search Algorithm for Dynamic Path Planning With Low Worst-Case Complexity. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2011</b> , 41, 1556-70		24
165	Optimal Regulation and Passivity Results for Axisymmetric Rigid Bodies Using Two Controls. <i>Journal of Guidance, Control, and Dynamics</i> , <b>1997</b> , 20, 457-463	2.1	24
164	Optimal partitioning for spatiotemporal coverage in a drift field. <i>Automatica</i> , <b>2013</b> , 49, 2064-2073	5.7	23
163	On-line Path Generation for Small Unmanned Aerial Vehicles Using B-Spline Path Templates <b>2008</b> ,		23
162	Drag-law effects in the goddard problem. <i>Automatica</i> , <b>1991</b> , 27, 481-490	5.7	23
161	Toward an Algorithmic Control Theory. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2017</b> , 40, 194-196	2.1	21
160	Feedback Navigation in an Uncertain Flowfield and Connections with Pursuit Strategies. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2012</b> , 35, 1268-1279	2.1	21
159	Optimal Scheduling for Servicing Multiple Satellites in a Circular Constellation <b>2002</b> ,		21
158	Autonomous Planning and Control for Intelligent Vehicles in Traffic. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2020</b> , 21, 2339-2349	6.1	21
157	Multiresolution on-line path planning for small unmanned aerial vehicles <b>2008</b> ,		20
156	Multiresolution path planning with wavelets: A local replanning approach <b>2008</b> ,		19
155	A LuGre Tire Friction Model With Exact Aggregate Dynamics. <i>Vehicle System Dynamics</i> , <b>2004</b> , 42, 195-210	2.8	19

154	Optimal Synthesis of the Asymmetric Sinistral/Dextral MarkovDubins Problem. <i>Journal of Optimization Theory and Applications</i> , <b>2011</b> , 150, 233-250	1.6	18
153	Network Flow Formulation for Cooperative Peer-to-Peer Refueling Strategies. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2010</b> , 33, 1539-1549	2.1	18
152	On steady-state cornering equilibria for wheeled vehicles with drift <b>2009</b> ,		18
151	Bank-to-Turn Control for a Small UAV using Backstepping and Parameter Adaptation. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2008</b> , 41, 4406-4411		18
150	Adaptive Spacecraft Attitude Tracking Control with Actuator Uncertainties <b>2005</b> ,		18
149	Asynchronous optimal mixed P2P satellite refueling strategies. <i>Journal of the Astronautical Sciences</i> , <b>2006</b> , 54, 543-565	1.1	18
148	On the Suicidal Pedestrian Differential Game. <i>Dynamic Games and Applications</i> , <b>2015</b> , 5, 297-317	1.1	17
147	Dynamic programming guided exploration for sampling-based motion planning algorithms <b>2015</b> ,		17
146	Optimal Evading Strategies for Two-Pursuer/One-Evader Problems. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2018</b> , 41, 851-862	2.1	17
145	<b>2014</b> ,		17
144	Nonlinear Driver Parameter Estimation and Driver Steering Behavior Analysis for ADAS Using Field Test Data. <i>IEEE Transactions on Human-Machine Systems</i> , <b>2017</b> , 47, 686-699	4.1	17
143	Rigid body motion tracking without linear and angular velocity feedback using dual quaternions <b>2013</b> ,		17
142	Optimal Stochastic Vehicle Path Planning Using Covariance Steering. <i>IEEE Robotics and Automation Letters</i> , <b>2019</b> , 4, 2276-2281	4.2	16
141	Multiresolution motion planning for autonomous agents via wavelet-based cell decompositions. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2012</b> , 42, 1455-69		16
140	A 3-DoF Experimental Test-Bed for Integrated Attitude Dynamics and Control Research <b>2003</b> ,		16
139	Goddard problem with constrained time of flight. <i>Journal of Guidance, Control, and Dynamics</i> , <b>1992</b> , 15, 289-296	2.1	16
138	Tracking Rigid Body Motion Using Thrusters and Momentum Wheels. <i>Journal of the Astronautical Sciences</i> , <b>2002</b> , 50, 311-323	1.1	16
137	A Beamlet-Based Graph Structure for Path Planning Using Multiscale Information. <i>IEEE Transactions on Automatic Control</i> , <b>2012</b> , 57, 1166-1178	5.9	15

136	Time-Optimal Path Following for Fixed-Wing Aircraft. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2013</b> , 36, 83-95	2.1	15
135	Time-optimal synthesis for the Zermelo-Markov-Dubins problem: The constant wind case <b>2010</b> ,		15
134	A 5-dof Experimental Platform for Spacecraft Rendezvous and Docking <b>2009</b> ,		15
133	Curvature-Bounded Traversability Analysis in Motion Planning for Mobile Robots. <i>IEEE Transactions on Robotics</i> , <b>2014</b> , 30, 1011-1019	6.5	14
132	An Experimental Comparison of CMG Steering Control Laws <b>2004</b> ,		14
131	Analysis of Energy-Optimal Aircraft Landing Operation Trajectories. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2013</b> , 36, 833-845	2.1	13
130	Comparison Between Peer-to-Peer and Single-Spacecraft Refueling Strategies for Spacecraft in Circular Orbits <b>2005</b> ,		13
129	New kinematic relations for the large angle problem in rigid body attitude dynamics. <i>Acta Astronautica</i> , <b>1994</b> , 32, 181-190	2.9	13
128	Finite-horizon covariance control of linear time-varying systems <b>2017</b> ,		12
127	Adaptive Model-Independent Tracking of Rigid Body Position and Attitude Motion with Mass and Inertia Matrix Identification using Dual Quaternions <b>2013</b> ,		12
126	Lyapunov-based exact stability analysis and synthesis for linear single-parameter dependent systems. <i>International Journal of Control</i> , <b>2010</b> , 83, 1823-1838	1.5	12
125	Data-driven human driver lateral control models for developing haptic-shared control advanced driver assist systems. <i>Robotics and Autonomous Systems</i> , <b>2019</b> , 114, 155-171	3.5	12
124	Machine learning guided exploration for sampling-based motion planning algorithms <b>2015</b> ,		11
123	Extended multi-agent consensus protocols for the generation of geometric patterns in the plane <b>2011</b> ,		11
122	Robust Feature Detection, Acquisition and Tracking for Relative Navigation in Space with a Known Target <b>2013</b> ,		10
121	On the generation of nearly optimal, planar paths of bounded curvature and bounded curvature gradient <b>2009</b> ,		10
120	Hohmann-Hohmann and Hohmann-Phasing Cooperative Rendezvous Maneuvers. <i>Journal of the Astronautical Sciences</i> , <b>2009</b> , 57, 393-417	1.1	10
119	Vehicle posture control through aggressive maneuvering for mitigation of T-bone collisions <b>2011</b> ,		10

118	An approach for computing the exact stability domain for a class of LTI parameter dependent systems. <i>International Journal of Control</i> , <b>2006</b> , 79, 1046-1061	1.5	10
117	Pursuit evasion game of two players under an external flow field <b>2015</b> ,		9
116	UAV Collision Avoidance based on the Solution of the Suicidal Pedestrian Differential Game <b>2016</b> ,		9
115	Game Theoretic continuous time Differential Dynamic Programming <b>2015</b> ,		9
114	Multiresolution Hierarchical Path-Planning for Small UAVs Using Wavelet Decompositions. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , <b>2012</b> , 66, 505-522	2.9	9
113	Time-optimal vehicle posture control to mitigate unavoidable collisions using conventional control inputs <b>2013</b> ,		9
112	Time-Optimal Parameterization of Geometric Path for Fixed-Wing Aircraft <b>2010</b> ,		9
111	A hierarchical on-line path planning scheme using wavelets <b>2007</b> ,		9
110	Laplacian cooperative attitude control of multiple rigid bodies <b>2006</b> ,		9
109	Beyond quadtrees: Cell decompositions for path planning using wavelet transforms <b>2007</b> ,		9
108	Cooperative Relative Navigation for Space Rendezvous and Proximity Operations using Controlled Active Vision. <i>Journal of Field Robotics</i> , <b>2016</b> , 33, 205-228	6.7	9
107	Optimal two-point visual driver model and controller development for driver-assist systems for semi-autonomous vehicles <b>2016</b> ,		9
106	Dynamics and Control of Spacecraft Manipulators with Thrusters and Momentum Exchange Devices. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2019</b> , 42, 15-29	2.1	9
105	Sequential pursuit of multiple targets under external disturbances via Zermelo-Voronoi diagrams. <i>Automatica</i> , <b>2017</b> , 81, 253-260	5.7	8
104	Stochastic L1-optimal control via forward and backward sampling. <i>Systems and Control Letters</i> , <b>2018</b> , 118, 101-108	2.4	8
103	An asymmetric version of the two car pursuit-evasion game <b>2014</b> ,		8
102	Multiresolution Path Planning Via Sector Decompositions Compatible to On-Board Sensor Data <b>2008</b> ,		8
101	Detumbling and partial attitude stabilization of a rigid spacecraft under actuator failure <b>2000</b> ,		8

100	Optimal mass for aerobraking tethers. <i>Acta Astronautica</i> , <b>1995</b> , 35, 489-500	2.9	8
99	Nonlinear Uncertainty Control with Iterative Covariance Steering <b>2019</b> ,		8
98	Vision-Based Autonomous Path Following Using a Human Driver Control Model With Reliable Input-Feature Value Estimation. <i>IEEE Transactions on Intelligent Vehicles</i> , <b>2019</b> , 4, 497-506	5	7
97	Multi-resolution path planning: Theoretical analysis, efficient implementation, and extensions to dynamic environments <b>2010</b> ,		7
96	Beamlet-like data processing for accelerated path-planning using multiscale information of the environment <b>2010</b> ,		7
95	Hierarchical motion planning with kinodynamic feasibility guarantees: Local trajectory planning via model predictive control <b>2012</b> ,		7
94	Laplacian Cooperative Attitude Control of Multiple Rigid Bodies <b>2006</b> ,		7
93	Pursuit-evasion games in dynamic flow fields via reachability set analysis <b>2017</b> ,		7
92	Dual Quaternion Framework for Modeling of Spacecraft-Mounted Multibody Robotic Systems. <i>Frontiers in Robotics and AI</i> , <b>2018</b> , 5, 128	2.8	7
91	Partial attitude synchronization for networks of underactuated spacecraft. <i>Automatica</i> , <b>2018</b> , 97, 27-37	5.7	7
90	Optimal Evading Strategies and Task Allocation in Multi-player Pursuit-Evasion Problems. <i>Dynamic Games and Applications</i> , <b>2019</b> , 9, 1168-1187	1.1	6
89	Hierarchical state abstractions for decision-making problems with computational constraints <b>2017</b> ,		6
88	Shortest distance problems in graphs using history-dependent transition costs with application to kinodynamic path planning <b>2009</b> ,		6
87	Image segmentation on cell-center sampled quadtree and octree grids <b>2009</b> ,		6
86	Spacecraft Angular Velocity Stabilization Using a Single-Gimbal Variable Speed Control Moment Gyro <b>2003</b> ,		6
85	Tracking rigid body motion using thrusters and momentum wheels <b>1998</b> ,		6
84	Invariant manifold techniques for control of underactuated mechanical systems <b>1997</b> ,		6
83	NEW CONTROL LAWS FOR THE ATTITUDE STABILIZATION OF RIGID BODIES <b>1995</b> , 321-326		6

82	Incremental sampling-based motion planners using policy iteration methods <b>2016</b> ,		6
81	Dual Quaternions as a Tool for Modeling, Control, and Estimation for Spacecraft Robotic Servicing Missions. <i>Journal of the Astronautical Sciences</i> , <b>2020</b> , 67, 595-629	1.1	6
80	Min-Max Differential Dynamic Programming: Continuous and Discrete Time Formulations. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2018</b> , 41, 2568-2580	2.1	6
79	Real-time Implementation and Validation of a New Hierarchical Path Planning Scheme of UAVs via Hardware-in-the-Loop Simulation <b>2008</b> , 163-181		6
78	Vehicle modeling and parameter estimation using adaptive limited memory joint-state UKF <b>2017</b> ,		5
77	On the relay pursuit of a maneuvering target by a group of pursuers <b>2011</b> ,		5
76	A Hierarchical Multiresolution Adaptive Mesh Refinement for the Solution of Evolution PDEs. <i>SIAM Journal of Scientific Computing</i> , <b>2009</b> , 31, 1221-1248	2.6	5
75	Trail-Braking Driver Input Parameterization for General Corner Geometry <b>2008</b> ,		5
74	Singularity Analysis and Avoidance of Variable-Speed Control Moment Gyros -- Part II : Power Constraint Case <b>2004</b> ,		5
73	Stochastic Game Theoretic trajectory optimization in continuous time <b>2016</b> ,		5
72	Minimum-fuel Powered Descent in the Presence of Random Disturbances <b>2019</b> ,		5
71	An optimal evader strategy in a two-pursuer one-evader problem <b>2014</b> ,		4
70	Multi-scale perception and path planning on probabilistic obstacle maps <b>2015</b> ,		4
69	Development and Evaluation of an Automated Path Planning Aid. <i>Journal of Aircraft</i> , <b>2012</b> , 49, 1774-1785.6		4
68	On the existence and synthesis of curvature-bounded paths inside nonuniform rectangular channels <b>2010</b> ,		4
67	The Markov-Dubins problem in the presence of a stochastic drift field <b>2012</b> ,		4
66	Global Asymptotic Stabilization of a Spinning Top With Torque Actuators Using Stereographic Projection. <i>Journal of Dynamical and Control Systems</i> , <b>1997</b> , 7, 215-233		4
65	Robust design of a spacecraft attitude tracking control system with actuator uncertainties <b>2008</b> ,		4

64	Leader-follower cooperative attitude control of multiple rigid bodies <b>2008</b> ,		4
63	Singularity Analysis and Avoidance of Variable-Speed Control Moment Gyros -- Part I : No Power Constraint Case <b>2004</b> ,		4
62	Real-Time Near-Optimal Feedback Control of Aggressive Vehicle Maneuvers. <i>Lecture Notes in Control and Information Sciences</i> , <b>2014</b> , 109-129	0.5	4
61	Input Hard Constrained Optimal Covariance Steering <b>2019</b> ,		4
60	Modeling of Spacecraft-Mounted Robot Dynamics and Control Using Dual Quaternions <b>2018</b> ,		4
59	Extended Kalman Filter for spacecraft pose estimation using dual quaternions <b>2015</b> ,		3
58	Pursuit-Evasion Problems Involving Two Pursuers and One Evader <b>2018</b> ,		3
57	Optimal Aircraft Trajectories for Wind Energy Extraction. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2018</b> , 41, 488-496	2.1	3
56	Spacecraft Trajectory Tracking with Identification of Mass Properties Using Dual Quaternions <b>2018</b> ,		3
55	Stochastic Differential Games: A Sampling Approach via FBSDEs. <i>Dynamic Games and Applications</i> , <b>2019</b> , 9, 486-505	1.1	3
54	Information-theoretic stochastic optimal control via incremental sampling-based algorithms <b>2014</b> ,		3
53	Pose-Tracking Controller for Satellites with Time-Varying Inertia <b>2014</b> ,		3
52	Minimum-Time Paths for a Small Aircraft in the Presence of Regionally-Varying Strong Winds <b>2010</b> ,		3
51	Optimal pursuer and moving target assignment using dynamic Voronoi diagrams <b>2011</b> ,		3
50	Pilot feedback for an automated planning aid system in the cockpit <b>2009</b> ,		3
49	Optimal Control of Rigid Body Angular Velocity with Quadratic Cost. <i>Journal of Optimization Theory and Applications</i> , <b>1998</b> , 96, 507-532	1.6	3
48	Optimal control of a magnetic bearing without bias flux using finite voltage. <i>Optimal Control Applications and Methods</i> , <b>1998</b> , 19, 227-246	1.7	3
47	A Cooperative P2P Refueling Strategy for Circular Satellite Constellations <b>2008</b> ,		3

46	Comments on a new parameterization of the attitude kinematics <b>1996,</b>		3
45	Game-theoretic and risk-sensitive stochastic optimal control via forward and backward stochastic differential equations <b>2016,</b>		3
44	A new hybrid sensorimotor driver model with model predictive control <b>2016,</b>		3
43	Minimum-Fuel Closed-Loop Powered Descent Guidance with Stochastically Derived Throttle Margins. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2021</b> , 44, 537-547	2.1	3
42	Multiplayer Pursuit-Evasion Games in Three-Dimensional Flow Fields. <i>Dynamic Games and Applications</i> , <b>2019</b> , 9, 1188-1207	1.1	2
41	Real-Time Trail-Braking Maneuver Generation for Off-Road Vehicle Racing <b>2018,</b>		2
40	A Comparative Study of Data-Driven Human Driver Lateral Control Models <b>2018,</b>		2
39	Efficient Closed-Loop Detection and Pose Estimation for Vision-Only Relative Localization in Space with A Cooperative Target <b>2014,</b>		2
38	Speed profile optimization for optimal path tracking <b>2013,</b>		2
37	Multi-Scale LPA* with low worst-case complexity guarantees <b>2011,</b>		2
36	Kinematic feasibility guarantees in geometric path planning using history-based transition costs over cell decompositions <b>2010,</b>		2
35	The Zermelo-Voronoi Diagram: a dynamic partition problem <b>2010,</b>		2
34	The asymmetric sinistral/dextral Markov-Dubins problem <b>2009,</b>		2
33	A quadratic programming approach to path smoothing <b>2011,</b>		2
32	Sequential Multiresolution Trajectory Optimization Schemes for Problems with Moving Targets. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2009</b> , 32, 488-499	2.1	2
31	Asymptotic properties of higher order Cayley transforms <b>1998,</b>		2
30	Stochastic Entry Guidance. <i>Journal of Guidance, Control, and Dynamics</i> , 1-15	2.1	2
29	A Note on the Consensus Protocol with Some Applications to Agent Orbit Pattern Generation. <i>Springer Tracts in Advanced Robotics</i> , <b>2013</b> , 345-358	0.5	2

28	Q-Tree Search: An Information-Theoretic Approach Toward Hierarchical Abstractions for Agents With Computational Limitations. <i>IEEE Transactions on Robotics</i> , <b>2020</b> , 36, 1669-1685	6.5	2
27	Reduced complexity multi-scale path-planning on probabilistic maps <b>2016</b> ,		2
26	Optimal Thrust Profile for Planetary Soft Landing Under Stochastic Disturbances. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2019</b> , 42, 209-216	2.1	2
25	Trajectory Desensitization in Optimal Control Problems <b>2018</b> ,		2
24	Relative Pose Stabilization using Backstepping Control with Dual Quaternions <b>2018</b> ,		1
23	Interpolation and parallel adjustment of center-sampled trees with new balancing constraints. <i>Visual Computer</i> , <b>2015</b> , 31, 1351-1363	2.3	1
22	A sequential pursuer-target assignment problem under external disturbances <b>2013</b> ,		1
21	Fuel-Efficient Flight Optimization for ATC Operations During Descent and Approach Phases <b>2013</b> ,		1
20	On the Computational Complexity of Peer-to-Peer Satellite Refueling Strategies. <i>Infor</i> , <b>2012</b> , 50, 88-94	0.5	1
19	On-line, kinodynamic trajectory generation through rectangular channels using path and motion primitives <b>2008</b> ,		1
18	Asymptotic stability of linear systems with multiple time-invariant state-delays. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2000</b> , 33, 91-96		1
17	Higher order Cayley transforms with applications to attitude representations <b>1996</b> ,		1
16	Suboptimal Control of Rigid Body Motion with a Quadratic Cost. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>1995</b> , 28, 503-508		1
15	GPU Parallelization of Policy Iteration RRT# <b>2020</b> ,		1
14	C-DOC: Co-State Desensitized Optimal Control <b>2020</b> ,		1
13	TIE: Time-Informed Exploration for Robot Motion Planning. <i>IEEE Robotics and Automation Letters</i> , <b>2021</b> , 6, 3585-3591	4.2	1
12	Partial attitude consensus for underactuated satellite clusters <b>2016</b> ,		1
11	High-Speed Cornering for Autonomous Off-Road Rally Racing. <i>IEEE Transactions on Control Systems Technology</i> , <b>2021</b> , 29, 485-501	4.8	1

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9	Anticipating Human Collision Avoidance Behavior for Safe Robot Reaction <b>2018</b> ,		1
8	Information-Theoretic Abstractions for Planning in Agents With Computational Constraints. <i>IEEE Robotics and Automation Letters</i> , <b>2021</b> , 6, 7651-7658	4.2	1
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5	Chance-Constrained Covariance Steering in a Gaussian Random Field via Successive Convex Programming. <i>Journal of Guidance, Control, and Dynamics</i> , 1-12	2.1	0
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3	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , <b>2021</b> , 1-1	3.7	0
2	Attitude Control <b>2015</b> , 1-18		
1	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> , <b>2006</b> , 20, 447-474	2.8	