

# Ilya V Kolmanovsky

## 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.

294  
papers

5,462  
citations

33  
h-index

65  
g-index

330  
ext. papers

7,107  
ext. citations

3.4  
avg, IF

6.29  
L-index

#	Paper	IF	Citations
294	ROTEC: Robust to early termination command governor for systems with limited computing capacity. <i>Systems and Control Letters</i> , <b>2022</b> , 161, 105142	2.4	0
293	Reference Governor-based fault-tolerant constrained control. <i>Automatica</i> , <b>2022</b> , 136, 110089	5.7	1
292	Set-Theoretic Failure Mode Reconfiguration for Stuck Actuators <b>2022</b> , 6, 1316-1321		0
291	MPC-Based Emergency Vehicle-Centered Multi-Intersection Traffic Control. <i>IEEE Transactions on Control Systems Technology</i> , <b>2022</b> , 1-13	4.8	1
290	A reference governor for linear systems with polynomial constraints. <i>Automatica</i> , <b>2022</b> , 110313	5.7	0
289	Safe Learning Reference Governor: Theory and Application to Fuel Truck Rollover Avoidance. <i>ASME Journal of Autonomous Vehicles and Systems</i> , <b>2021</b> , 1,		2
288	A Feasibility Governor for Enlarging the Region of Attraction of Linear Model Predictive Controllers. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 1-1	5.9	0
287	Autonomous Eco-Driving with Traffic Light and Lead Vehicle Constraints: An Application of Best Constrained Interpolation. <i>IFAC-PapersOnLine</i> , <b>2021</b> , 54, 45-50	0.7	1
286	Stochastic model predictive control for remanufacturing system management. <i>Journal of Manufacturing Systems</i> , <b>2021</b> , 59, 355-366	9.1	3
285	Nonlinear Model Predictive Detumbling of Small Satellites with a Single-Axis Magnetorquer. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2021</b> , 44, 1211-1218	2.1	
284	Development, implementation, and experimental outdoor evaluation of quadcopter controllers for computationally limited embedded systems. <i>Annual Reviews in Control</i> , <b>2021</b> , 52, 372-372	10.3	4
283	Safe Affine Transformation-Based Guidance of a Large-Scale Multiquadcopter System. <i>IEEE Transactions on Control of Network Systems</i> , <b>2021</b> , 8, 640-653	4	1
282	A sum-of-squares-based procedure to approximate the Pontryagin difference of basic semi-algebraic sets. <i>Automatica</i> , <b>2021</b> , 135, 109783	5.7	
281	Hierarchical MPC for Robust Eco-Cooling of Connected and Automated Vehicles and Its Application to Electric Vehicle Battery Thermal Management. <i>IEEE Transactions on Control Systems Technology</i> , <b>2021</b> , 29, 316-328	4.8	21
280	Distributed State Estimation for Linear Systems With Application to Full-Car Active Suspension Systems. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 1615-1625	8.9	2
279	Full State Feedback Foiling Control for America's Cup Catamarans. <i>IEEE Transactions on Control Systems Technology</i> , <b>2021</b> , 29, 1-17	4.8	1
278	Action Governor for Discrete-Time Linear Systems With Non-Convex Constraints <b>2021</b> , 5, 121-126		2

277	Model predictive control for drift counteraction of stochastic constrained linear systems. <i>Automatica</i> , <b>2021</b> , 123, 109304	5.7	2
276	Robust Action Governor for Discrete-Time Piecewise Affine Systems With Additive Disturbances <b>2021</b> , 1-1		0
275	Multihorizon Model Predictive Control: An Application to Integrated Power and Thermal Management of Connected Hybrid Electric Vehicles. <i>IEEE Transactions on Control Systems Technology</i> , <b>2021</b> , 1-13	4.8	3
274	An Analytical Safe Approximation to Joint Chance-Constrained Programming With Additive Gaussian Noises. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 1-1	5.9	0
273	Scalable Vehicle Team Continuum Deformation Coordination with Eigen Decomposition. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 1-1	5.9	1
272	Fuzzy Encoded Markov Chains: Overview, Observer Theory, and Applications. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2021</b> , 51, 116-130	7.3	0
271	Stochastic Drift Counteraction Optimal Control of a Fuel Cell-Powered Small Unmanned Aerial Vehicle. <i>Energies</i> , <b>2021</b> , 14, 1304	3.1	0
270	Viability, viscosity, and storage functions in model-predictive control with terminal constraints. <i>Automatica</i> , <b>2021</b> , 131, 109748	5.7	
269	Data-Driven Retrospective Cost Adaptive Control for Flight Control Applications. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2021</b> , 44, 1732-1758	2.1	1
268	Chance-constrained controller state and reference governor. <i>Automatica</i> , <b>2021</b> , 133, 109864	5.7	1
267	Coordinated Receding-Horizon Control of Battery Electric Vehicle Speed and Gearshift Using Relaxed Mixed-Integer Nonlinear Programming. <i>IEEE Transactions on Control Systems Technology</i> , <b>2021</b> , 1-11	4.8	3
266	An Analysis of Closed-Loop Stability for Linear Model Predictive Control Based on Time-Distributed Optimization. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 1-1	5.9	1
265	Corrections to Safe Affine Transformation-Based Guidance of a Large-Scale Multiquadcopter System [Jun 21 640-653]. <i>IEEE Transactions on Control of Network Systems</i> , <b>2021</b> , 8, 1987-1987	4	
264	A novel approach for optimal trajectory design with multiple operation modes of propulsion system, part 1. <i>Acta Astronautica</i> , <b>2020</b> , 172, 151-165	2.9	11
263	Connected and automated road vehicles: state of the art and future challenges. <i>Vehicle System Dynamics</i> , <b>2020</b> , 58, 672-704	2.8	22
262	Learning reference governor for cycle-to-cycle combustion control with misfire avoidance in spark-ignition engines at high exhaust gas recirculation diluted conditions. <i>International Journal of Engine Research</i> , <b>2020</b> , 21, 1819-1834	2.7	9
261	A novel approach for optimal trajectory design with multiple operation modes of propulsion system, part 2. <i>Acta Astronautica</i> , <b>2020</b> , 172, 166-179	2.9	8
260	FBstab: A proximally stabilized semismooth algorithm for convex quadratic programming. <i>Automatica</i> , <b>2020</b> , 113, 108801	5.7	5

259	Time-distributed optimization for real-time model predictive control: Stability, robustness, and constraint satisfaction. <i>Automatica</i> , <b>2020</b> , 117, 108973	5.7	15
258	Deep Reinforcement Learning with Enhanced Safety for Autonomous Highway Driving <b>2020</b> ,		7
257	Eco-Cooling Control Strategy for Automotive Air-Conditioning System: Design and Experimental Validation. <i>IEEE Transactions on Control Systems Technology</i> , <b>2020</b> , 1-12	4.8	5
256	Game-Theoretic Modeling of Traffic in Unsignalized Intersection Network for Autonomous Vehicle Control Verification and Validation. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2020</b> , 1-16	6.1	13
255	Aircraft Vision-Based Landing Using Robust Extended Command Governors. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 14716-14723	0.7	1
254	Model-free Learning for Safety-critical Control Systems: A Reference Governor Approach <b>2020</b> ,		2
253	Vision-Based Autonomous Driving: A Model Learning Approach <b>2020</b> ,		1
252	Output-Feedback RLS-Based Model Predictive Control* <b>2020</b> ,		4
251	Trajectory Optimization for Falsification:A Case Study of Vehicle Rollover Test Generation Based on Black-box Models. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 14279-14284	0.7	0
250	A Reference Governor for Nonlinear Systems With Disturbance Inputs Based on Logarithmic Norms and Quadratic Programming. <i>IEEE Transactions on Automatic Control</i> , <b>2020</b> , 65, 3207-3214	5.9	4
249	Sensitivity-Based Warmstarting for Nonlinear Model Predictive Control With Polyhedral State and Control Constraints. <i>IEEE Transactions on Automatic Control</i> , <b>2020</b> , 65, 4288-4294	5.9	1
248	Rapid uncertainty propagation and chance-constrained path planning for small unmanned aerial vehicles. <i>Advanced Control for Applications</i> , <b>2020</b> , 2, e23	0.9	2
247	Spacecraft Attitude Control With Nonconvex Constraints: An Explicit Reference Governor Approach. <i>IEEE Transactions on Automatic Control</i> , <b>2020</b> , 65, 3677-3684	5.9	6
246	Model predictive emissions control of a diesel engine airpath: Design and experimental evaluation. <i>International Journal of Robust and Nonlinear Control</i> , <b>2020</b> , 30, 7446-7477	3.6	6
245	Detection-averse optimal and receding-horizon control for Markov decision processes. <i>Automatica</i> , <b>2020</b> , 122, 109278	5.7	0
244	Adaptive control allocation for constrained systems. <i>Automatica</i> , <b>2020</b> , 121, 109161	5.7	12
243	Active Noise Control for Harmonic and Broadband Disturbances Using RLS-Based Model Predictive Control <b>2020</b> ,		2
242	Cooperative constrained parameter estimation by ADMM-RLS. <i>Automatica</i> , <b>2020</b> , 121, 109175	5.7	2

241	A constraint-separation principle in model predictive control. <i>Automatica</i> , <b>2020</b> , 121, 109190	5.7	1
240	Game-Theoretic Modeling of Multi-Vehicle Interactions at Uncontrolled Intersections. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2020</b> , 1-15	6.1	10
239	Hierarchical Optimization of Speed and Gearshift Control for Battery Electric Vehicles Using Preview Information <b>2020</b> ,		3
238	Long-Term Vehicle Speed Prediction via Historical Traffic Data Analysis for Improved Energy Efficiency of Connected Electric Vehicles. <i>Transportation Research Record</i> , <b>2020</b> , 2674, 17-29	1.7	7
237	Integrated Power and Thermal Management of Connected HEVs via Multi-Horizon MPC <b>2020</b> ,		5
236	Robust Science-Optimal Spacecraft Control for Circular Orbit Missions. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 50, 923-934	7.3	7
235	Distributed Model Predictive Control for More Electric Aircraft Subsystems Operating at Multiple Time Scales. <i>IEEE Transactions on Control Systems Technology</i> , <b>2020</b> , 28, 2177-2190	4.8	7
234	A Model-Based Approach to the Estimation and Control of a Continuously Variable Transmission. <i>IEEE Transactions on Control Systems Technology</i> , <b>2020</b> , 28, 1940-1947	4.8	1
233	Cabin and Battery Thermal Management of Connected and Automated HEVs for Improved Energy Efficiency Using Hierarchical Model Predictive Control. <i>IEEE Transactions on Control Systems Technology</i> , <b>2020</b> , 28, 1711-1726	4.8	35
232	Quad-Rotor Flight Simulation in Realistic Atmospheric Conditions. <i>AIAA Journal</i> , <b>2020</b> , 58, 1992-2004	2.1	12
231	A Traffic Simulation Model with Interactive Drivers and High-fidelity Car Dynamics. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 51, 384-389	0.7	5
230	Stochastic Predictive Control for Partially Observable Markov Decision Processes With Time-Joint Chance Constraints and Application to Autonomous Vehicle Control. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2019</b> , 141,	1.6	5
229	Game Theory-Based Traffic Modeling for Calibration of Automated Driving Algorithms. <i>Lecture Notes in Control and Information Sciences</i> , <b>2019</b> , 89-106	0.5	5
228	Reference governors for chance-constrained systems. <i>Automatica</i> , <b>2019</b> , 109, 108500	5.7	5
227	Model-free Learning to Avoid Constraint Violations: An Explicit Reference Governor Approach <b>2019</b> ,		6
226	Combined Energy and Comfort Optimization of Air Conditioning System in Connected and Automated Vehicles <b>2019</b> ,		2
225	A vehicle routing problem with dynamic demands and restricted failures solved using stochastic predictive control <b>2019</b> ,		1
224	On Closed-loop Lyapunov Stability with Minimum-time MPC Feedback Laws for Discrete-time Systems <b>2019</b> ,		3

223	The FBstab Quadratic Programming Method Applied to Model Predictive Control: An Implicit Condensing Approach <b>2019</b> ,		1
222	Thermal Responses of Connected HEVs Engine and Aftertreatment Systems to Eco-Driving <b>2019</b> ,		4
221	Integrated optimization of Power Split, Engine Thermal Management, and Cabin Heating for Hybrid Electric Vehicles <b>2019</b> ,		13
220	Optimized Design of Multi-Speed Transmissions for Battery Electric Vehicles <b>2019</b> ,		6
219	Decision making in dynamic and interactive environments based on cognitive hierarchy theory, Bayesian inference, and predictive control <b>2019</b> ,		2
218	Sequential optimization of speed, thermal load, and power split in connected HEVs <b>2019</b> ,		21
217	Robust Hierarchical MPC for Handling Long Horizon Demand Forecast Uncertainty with Application to Automotive Thermal Management <b>2019</b> ,		2
216	Stochastic Driver Modeling and Validation with Traffic Data <b>2019</b> ,		2
215	Scalar Reference Governor for Constrained Maneuver and Shape Control of Nonlinear Multibody Aircraft. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 819-824	0.7	1
214	Multi-mode Controller for Propellantless Spacecraft Translational Maneuvering Through Orientation Changes Only. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 825-830	0.7	
213	MPC-based Precision Cooling Strategy (PCS) for Efficient Thermal Management of Automotive Air Conditioning System <b>2019</b> ,		2
212	Automotive Applications of Model Predictive Control. <i>Control Engineering</i> , <b>2019</b> , 493-527	1	2
211	Embedding Constrained Model Predictive Control in a Continuous-Time Dynamic Feedback. <i>IEEE Transactions on Automatic Control</i> , <b>2019</b> , 64, 1932-1946	5.9	18
210	A Regularized and Smoothed FischerBurmeister Method for Quadratic Programming With Applications to Model Predictive Control. <i>IEEE Transactions on Automatic Control</i> , <b>2019</b> , 64, 2937-2944	5.9	20
209	Inexact NewtonKantorovich Methods for Constrained Nonlinear Model Predictive Control. <i>IEEE Transactions on Automatic Control</i> , <b>2019</b> , 64, 3602-3615	5.9	6
208	LQ control of unknown discrete-time linear systemsA novel approach and a comparison study. <i>Optimal Control Applications and Methods</i> , <b>2019</b> , 40, 265-291	1.7	3
207	Model Predictive Control Architectures for Maneuver Load Alleviation in Very Flexible Aircraft <b>2019</b> ,		1
206	Minimum-Time Model Predictive Spacecraft Attitude Control for Waypoint Following and Exclusion Zone Avoidance <b>2019</b> ,		1

205	Explicit Reference Governor for the Constrained Control of Linear Time-Delay Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2019</b> , 64, 2883-2889	5.9	6
204	Attitude Control of a 2U Cubesat by Magnetic and Air Drag Torques. <i>IEEE Transactions on Control Systems Technology</i> , <b>2019</b> , 27, 1047-1059	4.8	13
203	Training Drift Counteraction Optimal Control Policies Using Reinforcement Learning: An Adaptive Cruise Control Example. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2018</b> , 19, 2903-2912	6.1	10
202	Performance Comparison of Smoothing Functions for Indirect Optimization of Minimum-Fuel Low-thrust Trajectories <b>2018</b> ,		3
201	On Satellite Orbit Decay Compensation in Low Earth Orbits <b>2018</b> ,		2
200	An Evaluation of Stochastic Model-Dependent and Model-Independent Glider Flight Management. <i>IEEE Transactions on Control Systems Technology</i> , <b>2018</b> , 26, 1040-1056	4.8	1
199	Game Theoretic Modeling of Driver and Vehicle Interactions for Verification and Validation of Autonomous Vehicle Control Systems. <i>IEEE Transactions on Control Systems Technology</i> , <b>2018</b> , 26, 1782-1797	4.8	90
198	Simple Input Disturbance Observer-Based Control: Case Studies. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2018</b> , 140,	1.6	3
197	Visual-Manual Distraction Detection Using Driving Performance Indicators With Naturalistic Driving Data. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2018</b> , 19, 2528-2535	6.1	37
196	Reference Governor Strategies for Vehicle Rollover Avoidance. <i>IEEE Transactions on Control Systems Technology</i> , <b>2018</b> , 26, 1954-1969	4.8	12
195	Constrained control of free piston engine generator based on implicit reference governor. <i>Science China Information Sciences</i> , <b>2018</b> , 61, 1	3.4	9
194	Rapid Uncertainty Propagation and Chance-Constrained Trajectory Optimization for Small Unmanned Aerial Vehicles <b>2018</b> ,		2
193	Spacecraft Drift Counteraction Optimal Control: Open-Loop and Receding Horizon Solutions. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2018</b> , 41, 1859-1872	2.1	4
192	Game Theoretic Modeling of Vehicle Interactions at Unsignalized Intersections and Application to Autonomous Vehicle Control <b>2018</b> ,		14
191	Cloud-aided collaborative estimation by ADMM-RLS algorithms for connected diagnostics and prognostics <b>2018</b> ,		2
190	Toward Real-Time Automotive Model Predictive Control: A Perspective from a Diesel Air Path Control Development <b>2018</b> ,		3
189	Real-time optimization and model predictive control for aerospace and automotive applications <b>2018</b> ,		16
188	Solution to the HJB equation for LQR-type problems on compact connected Lie groups. <i>Automatica</i> , <b>2018</b> , 95, 525-528	5.7	0

187	Zonotope-based recursive estimation of the feasible solution set for linear static systems with additive and multiplicative uncertainties. <i>Automatica</i> , <b>2018</b> , 95, 236-245	5-7	9
186	Energy-Efficient Control Approach for Automated HEV and BEV With Short-Horizon Preview Information <b>2018</b> ,		2
185	Cloud resource allocation for cloud-based automotive applications. <i>Mechatronics</i> , <b>2018</b> , 50, 356-365	3	8
184	Shaping low-thrust trajectories with thrust-handling feature. <i>Advances in Space Research</i> , <b>2018</b> , 61, 879-890	2-4	23
183	Two-Layer Model Predictive Battery Thermal and Energy Management Optimization for Connected and Automated Electric Vehicles <b>2018</b> ,		14
182	Adaptive Game-Theoretic Decision Making for Autonomous Vehicle Control at Roundabouts <b>2018</b> ,		20
181	A Semismooth Predictor Corrector Method for Real-Time Constrained Parametric Optimization with Applications in Model Predictive Control <b>2018</b> ,		5
180	Tractable Stochastic Predictive Control for Partially Observable Markov Decision Processes with Time-Joint Chance Constraints <b>2018</b> ,		2
179	Drift Counteraction and Control of Downsized and Underactuated Systems: What MPC Has to Offer?. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 175-190	0-7	2
178	Optimal Control Based Falsification of Unknown Systems with Time Delays: A Gasoline Engine A/F Ratio Control Case Study. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 252-257	0-7	3
177	Model Predictive Climate Control of Connected and Automated Vehicles for Improved Energy Efficiency <b>2018</b> ,		16
176	Stochastic MPC Approach to Drift Counteraction <b>2018</b> ,		2
175	Dynamically Embedded Model Predictive Control <b>2018</b> ,		2
174	Model Predictive Control of Spacecraft Relative Motion with Convexified Keep-Out-Zone Constraints. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2018</b> , 41, 2054-2062	2-1	14
173	Combined homotopy and neighboring extremal optimal control. <i>Optimal Control Applications and Methods</i> , <b>2017</b> , 38, 459-469	1-7	3
172	Approximate Closed-Form Solution to a Linear Quadratic Optimal Control Problem with Disturbance. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2017</b> , 40, 477-483	2-1	1
171	Co-state initialization for the minimum-time low-thrust trajectory optimization. <i>Advances in Space Research</i> , <b>2017</b> , 59, 2360-2373	2-4	29
170	Iterative model and trajectory refinement for orbital trajectory optimization. <i>Optimal Control Applications and Methods</i> , <b>2017</b> , 38, 1132-1147	1-7	1



169	Coordinated Model Predictive Control of Aircraft Gas Turbine Engine and Power System. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2017</b> , 40, 2538-2555	2.1	21
168	Geometric Mechanics Based Nonlinear Model Predictive Spacecraft Attitude Control with Reaction Wheels. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2017</b> , 40, 309-319	2.1	18
167	MPC on manifolds with an application to the control of spacecraft attitude on SO(3). <i>Automatica</i> , <b>2017</b> , 76, 293-300	5.7	26
166	Predictive propulsion and power control for large transient power loads in a More Electric Aircraft <b>2017</b> ,		5
165	A cascaded economic model predictive control strategy for a diesel engine using a non-uniform prediction horizon discretization <b>2017</b> ,		7
164	Zonotope-based set-membership parameter identification of linear systems with additive and multiplicative uncertainties: A new algorithm <b>2017</b> ,		4
163	A new algorithm for a class of deterministic drift counteraction optimal control problems <b>2017</b> ,		1
162	Constrained Spacecraft Relative Motion Planning Exploiting Periodic Natural Motion Trajectories and Invariance. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2017</b> , 40, 3100-3115	2.1	14
161	Model-free optimal control based automotive control system falsification <b>2017</b> ,		5
160	Drift counteraction optimal control for deterministic systems and enhancing convergence of value iteration. <i>Automatica</i> , <b>2017</b> , 83, 108-115	5.7	5
159	Parameter Governors for Coordinated Control of n-Spacecraft Formations. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2017</b> , 40, 3020-3025	2.1	3
158	Distributed MPC via ADMM for Coordination and Control of More Electric Aircraft Subsystems <b>2017</b> ,		4
157	Fast Computable Recoverable Sets and Their Use for Aircraft Loss-of-Control Handling. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2017</b> , 40, 934-947	2.1	15
156	Reference and command governors for systems with constraints: A survey on theory and applications. <i>Automatica</i> , <b>2017</b> , 75, 306-328	5.7	148
155	Optimal State Estimation for Systems Driven by JumpDiffusion Process With Application to Road Anomaly Detection. <i>IEEE Transactions on Control Systems Technology</i> , <b>2017</b> , 25, 1634-1643	4.8	6
154	Envelope-Aware Flight Management for Loss of Control Prevention Given Rudder Jam. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2017</b> , 40, 1027-1041	2.1	8
153	Model Predictive Control of an Underactuated Spacecraft with Two Reaction Wheels. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2017</b> , 40, 320-332	2.1	11
152	A New Clustering Algorithm for Processing GPS-Based Road Anomaly Reports With a Mahalanobis Distance. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2017</b> , 18, 1980-1988	6.1	21

151	Stability, Control, and Constraint Enforcement of Piston Motion in a Hydraulic Free-Piston Engine. <i>IEEE Transactions on Control Systems Technology</i> , <b>2017</b> , 25, 1284-1296	4.8	6
150	A Finite State Machine Based Automated Driving Controller and its Stochastic Optimization <b>2017</b> ,		13
149	Optimal Driving Policies for Autonomous Vehicles Based on Stochastic Drift Counteraction. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 290-296	0.7	5
148	Constraint Enforcement for a Lighter-than-Air Wind-Energy System: An Application of Reference Governors with Chance Constraints. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 13258-13263	0.7	4
147	Control of Gear Ratio and Slip in Continuously Variable Transmissions: A Model Predictive Control Approach <b>2017</b> ,		4
146	Optimal and receding horizon drift counteraction control: Linear programming approaches <b>2017</b> ,		5
145	H-infinity Filtering for Cloud-Aided Semi-active Suspension with Delayed Information. <i>Advances in Delays and Dynamics</i> , <b>2017</b> , 283-297	0.3	1
144	Road Risk Modeling and Cloud-Aided Safety-Based Route Planning. <i>IEEE Transactions on Cybernetics</i> , <b>2016</b> , 46, 2473-2483	10.2	23
143	Fault tolerant control for over-actuated systems: An adaptive correction approach <b>2016</b> ,		6
142	MPC on manifolds with an application to SE(3) <b>2016</b> ,		3
141	Model Predictive Control Strategies for Constrained Soft Landing on an Asteroid <b>2016</b> ,		11
140	Underactuated Spacecraft Switching Law for Two Reaction Wheels and Constant Angular Momentum. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2016</b> , 39, 2086-2099	2.1	6
139	A game theoretical model of traffic with multiple interacting drivers for use in autonomous vehicle development <b>2016</b> ,		23
138	Simultaneous road profile estimation and anomaly detection with an input observer and a jump diffusion process estimator <b>2016</b> ,		9
137	Deterministic Drift Counteraction Optimal Control for Attitude Control of Spacecraft with Time-Varying Mass <b>2016</b> ,		4
136	Rate-Based Model Predictive Controller for Diesel Engine Air Path: Design and Experimental Evaluation. <i>IEEE Transactions on Control Systems Technology</i> , <b>2016</b> , 24, 1922-1935	4.8	29
135	Reference Governors for Enforcing Compressor Surge Constraints. <i>IEEE Transactions on Control Systems Technology</i> , <b>2016</b> , 24, 1729-1739	4.8	6
134	Neighboring extremal optimal control for mechanical systems on Riemannian manifolds. <i>Journal of Geometric Mechanics</i> , <b>2016</b> , 8, 257-272	1.5	5

133	Design Environment for Nonlinear Model Predictive Control <b>2016,</b>		5
132	Recovering Linear Controllability of an Underactuated Spacecraft by Exploiting Solar Radiation Pressure. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2016</b> , 39, 826-837	2.1	7
131	Co-states initialization of minimum-time low-thrust trajectories using shape-based methods <b>2016,</b>		3
130	Failure Prognostics for In-Tank Fuel Pumps of the Returnless Fuel Systems <b>2016,</b>		2
129	Stochastic drift counteraction optimal control and enhancing convergence of value iteration <b>2016,</b>		5
128	Constrained control for soft landing on an asteroid with gravity model uncertainty <b>2016,</b>		5
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112	Deterministic drift counteraction optimal control and its application to satellite life extension <b>2015</b> ,		6
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