

Ilya V Kolmanovsky

List of Publications by Citations

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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	Theory and computation of disturbance invariant sets for discrete-time linear systems. <i>Mathematical Problems in Engineering</i> , 1998 , 4, 317-367	1.1	495
293	MPC-Based Energy Management of a Power-Split Hybrid Electric Vehicle. <i>IEEE Transactions on Control Systems Technology</i> , 2012 , 20, 593-603	4.8	423
292	Stochastic MPC With Learning for Driver-Predictive Vehicle Control and its Application to HEV Energy Management. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 1018-1031	4.8	248
291	Nonlinear tracking control in the presence of state and control constraints: a generalized reference governor. <i>Automatica</i> , 2002 , 38, 2063-2073	5.7	243
290	Discrete-time reference governors and the nonlinear control of systems with state and control constraints. <i>International Journal of Robust and Nonlinear Control</i> , 1995 , 5, 487-504	3.6	242
289	Fast reference governors for systems with state and control constraints and disturbance inputs. <i>International Journal of Robust and Nonlinear Control</i> , 1999 , 9, 1117-1141	3.6	156
288	Reference and command governors for systems with constraints: A survey on theory and applications. <i>Automatica</i> , 2017 , 75, 306-328	5.7	148
287	Model Predictive Control approach for guidance of spacecraft rendezvous and proximity maneuvering. <i>International Journal of Robust and Nonlinear Control</i> , 2012 , 22, 1398-1427	3.6	134
286	Turbocharger Modeling for Automotive Control Applications 1999 ,		126
285	Model Predictive Control for Spacecraft Rendezvous and Docking: Strategies for Handling Constraints and Case Studies. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 1638-1647	4.8	112
284	Application of input estimation techniques to charge estimation and control in automotive engines. <i>Control Engineering Practice</i> , 2002 , 10, 1371-1383	3.9	107
283	Game Theory Controller for Hybrid Electric Vehicles. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 652-663	4.8	95
282	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> , 2018 , 26, 1782-1797	4.8	90
281	Power Smoothing Energy Management and Its Application to a Series Hybrid Powertrain. <i>IEEE Transactions on Control Systems Technology</i> , 2013 , 21, 2091-2103	4.8	74
280	Adaptive posicast controller for time-delay systems with relative degree . <i>Automatica</i> , 2010 , 46, 279-289	5.7	65
279	Reference and command governors: A tutorial on their theory and automotive applications 2014 ,		63
278	Spark ignition engine fuel-to-air ratio control: An adaptive control approach. <i>Control Engineering Practice</i> , 2010 , 18, 1369-1378	3.9	57

277	Constraint Handling in a Fuel Cell System: A Fast Reference Governor Approach. <i>IEEE Transactions on Control Systems Technology</i> , 2007 , 15, 86-98	4.8	56
276	Real-Time Model Predictive Control for Shipboard Power Management Using the IPA-SQP Approach. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 2129-2143	4.8	50
275	Enhanced Smoothing Technique for Indirect Optimization of Minimum-Fuel Low-Thrust Trajectories. <i>Journal of Guidance, Control, and Dynamics</i> , 2016 , 39, 2500-2511	2.1	50
274	On-line identification of SISO linear time-invariant delay systems from output measurements. <i>Automatica</i> , 2007 , 43, 2060-2069	5.7	48
273	Generalized Markov Models for Real-Time Modeling of Continuous Systems. <i>IEEE Transactions on Fuzzy Systems</i> , 2014 , 22, 983-998	8.3	45
272	Nonlinear Model Predictive Control of a Diesel Engine Air Path: A Comparison of Constraint Handling and Computational Strategies. <i>IFAC-PapersOnLine</i> , 2015 , 48, 372-379	0.7	45
271	An integrated perturbation analysis and Sequential Quadratic Programming approach for Model Predictive Control. <i>Automatica</i> , 2009 , 45, 2412-2418	5.7	44
270	Switched mode feedback control laws for nonholonomic systems in extended power form. <i>Systems and Control Letters</i> , 1996 , 27, 29-36	2.4	44
269	Suboptimal Control of Switched Systems With an Application to the DISC Engine. <i>IEEE Transactions on Control Systems Technology</i> , 2008 , 16, 189-201	4.8	43
268	Model Predictive Idle Speed Control: Design, Analysis, and Experimental Evaluation. <i>IEEE Transactions on Control Systems Technology</i> , 2011 ,	4.8	42
267	Model-Based Plant Design and Hierarchical Control of a Prototype Lighter-Than-Air Wind Energy System, With Experimental Flight Test Results. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 531-542	4.8	40
266	Inertia-Free Spacecraft Attitude Control Using Reaction Wheels. <i>Journal of Guidance, Control, and Dynamics</i> , 2013 , 36, 1425-1439	2.1	38
265	Visual-Manual Distraction Detection Using Driving Performance Indicators With Naturalistic Driving Data. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2018 , 19, 2528-2535	6.1	37
264	Spark-Ignition-Engine Idle Speed Control: An Adaptive Control Approach. <i>IEEE Transactions on Control Systems Technology</i> , 2011 , 19, 990-1002	4.8	37
263	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> , 2020 , 28, 1711-1726	4.8	35
262	Optimally controlling Hybrid Electric Vehicles using path forecasting 2009 ,		33
261	Safe Positively Invariant Sets for Spacecraft Obstacle Avoidance. <i>Journal of Guidance, Control, and Dynamics</i> , 2015 , 38, 720-732	2.1	30
260	Co-state initialization for the minimum-time low-thrust trajectory optimization. <i>Advances in Space Research</i> , 2017 , 59, 2360-2373	2.4	29

259	Rate-Based Model Predictive Controller for Diesel Engine Air Path: Design and Experimental Evaluation. <i>IEEE Transactions on Control Systems Technology</i> , 2016 , 24, 1922-1935	4.8	29
258	Parameter governors for discrete-time nonlinear systems with pointwise-in-time state and control constraints. <i>Automatica</i> , 2006 , 42, 841-848	5.7	28
257	Cloud aided semi-active suspension control 2014 ,		27
256	MPC on manifolds with an application to the control of spacecraft attitude on SO(3). <i>Automatica</i> , 2017 , 76, 293-300	5.7	26
255	Model Predictive Control of Engine Speed During Vehicle Deceleration. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 2205-2217	4.8	26
254	A Conjugate Gradient-Based BPTT-Like Optimal Control Algorithm With Vehicle Dynamics Control Application. <i>IEEE Transactions on Control Systems Technology</i> , 2011 , 19, 1587-1595	4.8	24
253	Road Risk Modeling and Cloud-Aided Safety-Based Route Planning. <i>IEEE Transactions on Cybernetics</i> , 2016 , 46, 2473-2483	10.2	23
252	A game theoretical model of traffic with multiple interacting drivers for use in autonomous vehicle development 2016 ,		23
251	Hierarchical reasoning game theory based approach for evaluation and testing of autonomous vehicle control systems 2016 ,		23
250	Shaping low-thrust trajectories with thrust-handling feature. <i>Advances in Space Research</i> , 2018 , 61, 879-890	9.0	23
249	Connected and automated road vehicles: state of the art and future challenges. <i>Vehicle System Dynamics</i> , 2020 , 58, 672-704	2.8	22
248	Robust Control of Constrained Linear Systems With Bounded Disturbances. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 2683-2688	5.9	22
247	A stable block model predictive control with variable implementation horizon. <i>Automatica</i> , 2007 , 43, 1945-1953	5.7	22
246	Coordinated Model Predictive Control of Aircraft Gas Turbine Engine and Power System. <i>Journal of Guidance, Control, and Dynamics</i> , 2017 , 40, 2538-2555	2.1	21
245	A New Clustering Algorithm for Processing GPS-Based Road Anomaly Reports With a Mahalanobis Distance. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2017 , 18, 1980-1988	6.1	21
244	Markov chain modeling approaches for on board applications 2010 ,		21
243	Sequential optimization of speed, thermal load, and power split in connected HEVs 2019 ,		21
242	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> , 2021 , 29, 316-328	4.8	21

241	From vehicle stability control to intelligent personal minder: Real-time vehicle handling limit warning and driver style characterization 2009 ,		20
240	Vehicle Velocity Prediction and Energy Management Strategy Part 1: Deterministic and Stochastic Vehicle Velocity Prediction Using Machine Learning		20
239	A Regularized and Smoothed FischerBurmeister Method for Quadratic Programming With Applications to Model Predictive Control. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 2937-2944	5.9	20
238	Adaptive Game-Theoretic Decision Making for Autonomous Vehicle Control at Roundabouts 2018 ,		20
237	Geometric Mechanics Based Nonlinear Model Predictive Spacecraft Attitude Control with Reaction Wheels. <i>Journal of Guidance, Control, and Dynamics</i> , 2017 , 40, 309-319	2.1	18
236	Embedding Constrained Model Predictive Control in a Continuous-Time Dynamic Feedback. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 1932-1946	5.9	18
235	Model Predictive Control of three dimensional spacecraft relative motion 2012 ,		17
234	Trajectory Control of Very Flexible Aircraft with Gust Disturbance 2013 ,		17
233	On the dynamics and control of through-plane water distributions in PEM fuel cells. <i>Chemical Engineering Science</i> , 2008 , 63, 4418-4432	4.4	17
232	Real-time optimization and model predictive control for aerospace and automotive applications 2018 ,		16
231	Nonlinear model predictive control strategy for low thrust spacecraft missions. <i>Optimal Control Applications and Methods</i> , 2014 , 35, 1-20	1.7	16
230	Stochastic dynamic programming control policies for fuel efficient in-traffic driving 2012 ,		16
229	Stochastic dynamic programming control policies for fuel efficient vehicle following 2013 ,		16
228	Value Iteration for (Switched) Homogeneous Systems. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 1290-1294	5.9	16
227	Ultracapacitor assisted powertrains: Modeling, control, sizing, and the impact on fuel economy 2008 ,		16
226	Model Predictive Climate Control of Connected and Automated Vehicles for Improved Energy Efficiency 2018 ,		16
225	Reference governor for Network Control Systems subject to variable time-delay. <i>Automatica</i> , 2015 , 62, 77-86	5.7	15
224	Time-distributed optimization for real-time model predictive control: Stability, robustness, and constraint satisfaction. <i>Automatica</i> , 2020 , 117, 108973	5.7	15

223	Fast Computable Recoverable Sets and Their Use for Aircraft Loss-of-Control Handling. <i>Journal of Guidance, Control, and Dynamics</i> , 2017 , 40, 934-947	2.1	15
222	Cloud aided safety-based route planning 2014 ,		15
221	Game Theoretic Modeling of Vehicle Interactions at Unsignalized Intersections and Application to Autonomous Vehicle Control 2018 ,		14
220	Constrained Spacecraft Relative Motion Planning Exploiting Periodic Natural Motion Trajectories and Invariance. <i>Journal of Guidance, Control, and Dynamics</i> , 2017 , 40, 3100-3115	2.1	14
219	Neighboring Extremal Solution for Nonlinear Discrete-Time Optimal Control Problems With State Inequality Constraints. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 2674-2679	5.9	14
218	Two-Layer Model Predictive Battery Thermal and Energy Management Optimization for Connected and Automated Electric Vehicles 2018 ,		14
217	Model Predictive Control of Spacecraft Relative Motion with Convexified Keep-Out-Zone Constraints. <i>Journal of Guidance, Control, and Dynamics</i> , 2018 , 41, 2054-2062	2.1	14
216	HIFiltering for Cloud-Aided Semi-active Suspension with Delayed Road Information. <i>IFAC-PapersOnLine</i> , 2015 , 48, 275-280	0.7	13
215	A Finite State Machine Based Automated Driving Controller and its Stochastic Optimization 2017 ,		13
214	A control allocation technique to recover from pilot-induced oscillations (capio) due to actuator rate limiting 2010 ,		13
213	MEAN-SQUARE STABILITY OF NONLINEAR SYSTEMS WITH TIME-VARYING, RANDOM DELAY. <i>Stochastic Analysis and Applications</i> , 2001 , 19, 279-293	1.1	13
212	Game-Theoretic Modeling of Traffic in Unsignalized Intersection Network for Autonomous Vehicle Control Verification and Validation. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020 , 1-16	6.1	13
211	Integrated optimization of Power Split, Engine Thermal Management, and Cabin Heating for Hybrid Electric Vehicles 2019 ,		13
210	Attitude Control of a 2U Cubesat by Magnetic and Air Drag Torques. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 1047-1059	4.8	13
209	Reference Governor Strategies for Vehicle Rollover Avoidance. <i>IEEE Transactions on Control Systems Technology</i> , 2018 , 26, 1954-1969	4.8	12
208	Road anomaly estimation: Model based pothole detection 2015 ,		12
207	A generalized Markov Chain modeling approach for on board applications 2010 ,		12
206	Reduced order reference governor 2012 ,		12

205	Developments in Constrained Control Using Reference Governors. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 282-290		12
204	Adaptive control allocation for constrained systems. <i>Automatica</i> , 2020 , 121, 109161	5.7	12
203	Quad-Rotor Flight Simulation in Realistic Atmospheric Conditions. <i>AIAA Journal</i> , 2020 , 58, 1992-2004	2.1	12
202	A neural network approach to retinal layer boundary identification from optical coherence tomography images 2015 ,		11
201	A novel approach for optimal trajectory design with multiple operation modes of propulsion system, part 1. <i>Acta Astronautica</i> , 2020 , 172, 151-165	2.9	11
200	Model Predictive Control Strategies for Constrained Soft Landing on an Asteroid 2016 ,		11
199	Model Predictive Control of an Underactuated Spacecraft with Two Reaction Wheels. <i>Journal of Guidance, Control, and Dynamics</i> , 2017 , 40, 320-332	2.1	11
198	Reference and extended command governors for control of turbocharged gasoline engines based on linear models 2011 ,		11
197	A control allocation system for automatic detection and compensation of phase shift due to actuator rate limiting 2011 ,		11
196	Source Identification for Parabolic Equations. <i>Mathematics of Control, Signals, and Systems</i> , 2003 , 16, 141-157	1.3	11
195	Stochastic Fuel Efficient Optimal Control of Vehicle Speed. <i>Lecture Notes in Control and Information Sciences</i> , 2014 , 147-162	0.5	11
194	Fixed-point constrained Model Predictive Control of spacecraft attitude 2015 ,		10
193	Training Drift Counteraction Optimal Control Policies Using Reinforcement Learning: An Adaptive Cruise Control Example. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2018 , 19, 2903-2912	6.1	10
192	Reduced order extended command governor. <i>Automatica</i> , 2014 , 50, 1466-1472	5.7	10
191	An Adaptive Proportional Integral Control of a Urea Selective Catalytic Reduction System based on System Identification Models. <i>SAE International Journal of Fuels and Lubricants</i> , 2010 , 3, 625-642	1.8	10
190	Game-Theoretic Modeling of Multi-Vehicle Interactions at Uncontrolled Intersections. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020 , 1-15	6.1	10
189	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> , 2020 , 21, 1819-1834	2.7	9
188	Simultaneous road profile estimation and anomaly detection with an input observer and a jump diffusion process estimator 2016 ,		9

187	Constrained control of free piston engine generator based on implicit reference governor. <i>Science China Information Sciences</i> , 2018 , 61, 1	3.4	9
186	Zonotope-based recursive estimation of the feasible solution set for linear static systems with additive and multiplicative uncertainties. <i>Automatica</i> , 2018 , 95, 236-245	5.7	9
185	Constrained spacecraft attitude control on SO(3) using reference governors and nonlinear model predictive control 2014 ,		9
184	Stable hierarchical model predictive control using an inner loop reference model and . <i>Automatica</i> , 2014 , 50, 92-99	5.7	9
183	Fast reference governors for second-order linear systems with constraints and an input time-delay. <i>Automatica</i> , 2014 , 50, 641-645	5.7	9
182	A novel approach for optimal trajectory design with multiple operation modes of propulsion system, part 2. <i>Acta Astronautica</i> , 2020 , 172, 166-179	2.9	8
181	Envelope-Aware Flight Management for Loss of Control Prevention Given Rudder Jam. <i>Journal of Guidance, Control, and Dynamics</i> , 2017 , 40, 1027-1041	2.1	8
180	Modeling of vehicle driving conditions using transition probability models 2011 ,		8
179	Forward-integration Riccati-based output-feedback control of linear time-varying systems 2012 ,		8
178	Distributed Supervisory Controller Design for Battery Swapping Modularity in Plug-In Hybrid Electric Vehicles. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2012 , 134,	1.6	8
177	Hybrid feedback stabilization of rotational-translational actuator (RTAC) system. <i>International Journal of Robust and Nonlinear Control</i> , 1998 , 8, 367-375	3.6	8
176	Set-membership condition monitoring framework for dual fuel engines 2016 ,		8
175	Cloud resource allocation for cloud-based automotive applications. <i>Mechatronics</i> , 2018 , 50, 356-365	3	8
174	A cascaded economic model predictive control strategy for a diesel engine using a non-uniform prediction horizon discretization 2017 ,		7
173	Dual-loop Control of Free Piston Engine Generator. <i>IFAC-PapersOnLine</i> , 2015 , 48, 174-180	0.7	7
172	Constrained Model Predictive Control of spacecraft attitude with reaction wheels desaturation 2015 ,		7
171	Automotive Powertrain Control Problems Involving Time Delay: An Adaptive Control Approach 2008 ,		7
170	Boosted Gasoline Direct Injection Engines: Comparison of Throttle and VGT Controllers for Homogeneous Charge Operation 2002 ,		7

169	Best interpolation in a strip II: Reduction to unconstrained convex optimization. <i>Computational Optimization and Applications</i> , 1996 , 5, 233-251	1.4	7
168	Deep Reinforcement Learning with Enhanced Safety for Autonomous Highway Driving 2020 ,		7
167	Long-Term Vehicle Speed Prediction via Historical Traffic Data Analysis for Improved Energy Efficiency of Connected Electric Vehicles. <i>Transportation Research Record</i> , 2020 , 2674, 17-29	1.7	7
166	Recovering Linear Controllability of an Underactuated Spacecraft by Exploiting Solar Radiation Pressure. <i>Journal of Guidance, Control, and Dynamics</i> , 2016 , 39, 826-837	2.1	7
165	Nonlinear Dynamic Inversion of a Flexible Aircraft. <i>IFAC-PapersOnLine</i> , 2016 , 49, 338-342	0.7	7
164	Robust Science-Optimal Spacecraft Control for Circular Orbit Missions. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020 , 50, 923-934	7.3	7
163	Distributed Model Predictive Control for More Electric Aircraft Subsystems Operating at Multiple Time Scales. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 2177-2190	4.8	7
162	Fault tolerant control for over-actuated systems: An adaptive correction approach 2016 ,		6
161	Underactuated Spacecraft Switching Law for Two Reaction Wheels and Constant Angular Momentum. <i>Journal of Guidance, Control, and Dynamics</i> , 2016 , 39, 2086-2099	2.1	6
160	Reference Governors for Enforcing Compressor Surge Constraints. <i>IEEE Transactions on Control Systems Technology</i> , 2016 , 24, 1729-1739	4.8	6
159	A tutorial overview of IPA-SQP approach for optimization of constrained nonlinear systems 2014 ,		6
158	Direct Optimal Design for Component Swapping Modularity in Control Systems. <i>IEEE/ASME Transactions on Mechatronics</i> , 2013 , 18, 297-306	5.5	6
157	Optimal State Estimation for Systems Driven by Jump-Diffusion Process With Application to Road Anomaly Detection. <i>IEEE Transactions on Control Systems Technology</i> , 2017 , 25, 1634-1643	4.8	6
156	Stability, Control, and Constraint Enforcement of Piston Motion in a Hydraulic Free-Piston Engine. <i>IEEE Transactions on Control Systems Technology</i> , 2017 , 25, 1284-1296	4.8	6
155	Deterministic drift counteraction optimal control and its application to satellite life extension 2015 ,		6
154	Adaptive control approach for cylinder balancing in a hydraulic linear engine 2013 ,		6
153	Path dependent receding horizon control policies for Hybrid Electric Vehicles 2009 ,		6
152	Further developments and applications of network reference governor for constrained systems 2012 ,		6

151	A Dynamic Semi-Analytic Channel-to-Channel Model of Two-Phase Water Distribution for a Unit Fuel Cell. <i>IEEE Transactions on Control Systems Technology</i> , 2009 , 17, 1055-1068	4.8	6
150	Model-free Learning to Avoid Constraint Violations: An Explicit Reference Governor Approach 2019 ,		6
149	Spacecraft Attitude Control With Nonconvex Constraints: An Explicit Reference Governor Approach. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 3677-3684	5.9	6
148	Model predictive emissions control of a diesel engine airpath: Design and experimental evaluation. <i>International Journal of Robust and Nonlinear Control</i> , 2020 , 30, 7446-7477	3.6	6
147	A Perturbed Chord (Newton-Kantorovich) Method for Constrained Nonlinear Model Predictive Control. <i>IFAC-PapersOnLine</i> , 2016 , 49, 253-258	0.7	6
146	Optimized Design of Multi-Speed Transmissions for Battery Electric Vehicles 2019 ,		6
145	Inexact Newton-Kantorovich Methods for Constrained Nonlinear Model Predictive Control. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 3602-3615	5.9	6
144	Explicit Reference Governor for the Constrained Control of Linear Time-Delay Systems. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 2883-2889	5.9	6
143	Predictive propulsion and power control for large transient power loads in a More Electric Aircraft 2017 ,		5
142	A Traffic Simulation Model with Interactive Drivers and High-fidelity Car Dynamics. <i>IFAC-PapersOnLine</i> , 2019 , 51, 384-389	0.7	5
141	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> , 2019 , 141,	1.6	5
140	FBstab: A proximally stabilized semismooth algorithm for convex quadratic programming. <i>Automatica</i> , 2020 , 113, 108801	5.7	5
139	Game Theory-Based Traffic Modeling for Calibration of Automated Driving Algorithms. <i>Lecture Notes in Control and Information Sciences</i> , 2019 , 89-106	0.5	5
138	Reference governors for chance-constrained systems. <i>Automatica</i> , 2019 , 109, 108500	5.7	5
137	Model-free optimal control based automotive control system falsification 2017 ,		5
136	Drift counteraction optimal control for deterministic systems and enhancing convergence of value iteration. <i>Automatica</i> , 2017 , 83, 108-115	5.7	5
135	Optimal Driving Policies for Autonomous Vehicles Based on Stochastic Drift Counteraction. <i>IFAC-PapersOnLine</i> , 2017 , 50, 290-296	0.7	5
134	Reference and command governors for systems with slowly time-varying references and time-dependent constraints 2014 ,		5

133	Limit Protection in Gas Turbine Engines Based on Reference and Extended Command Governors 2014,		5
132	A stochastic drift counteraction optimal control approach to glider flight management 2011,		5
131	Constrained actuator coordination by virtual state governing 2011,		5
130	Eco-Cooling Control Strategy for Automotive Air-Conditioning System: Design and Experimental Validation. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 1-12	4.8	5
129	Optimal and receding horizon drift counteraction control: Linear programming approaches 2017,		5
128	Neighboring extremal optimal control for mechanical systems on Riemannian manifolds. <i>Journal of Geometric Mechanics</i> , 2016 , 8, 257-272	1.5	5
127	Integrated Power and Thermal Management of Connected HEVs via Multi-Horizon MPC 2020,		5
126	Design Environment for Nonlinear Model Predictive Control 2016,		5
125	Stochastic drift counteraction optimal control and enhancing convergence of value iteration 2016,		5
124	Constrained control for soft landing on an asteroid with gravity model uncertainty 2016,		5
123	A Semismooth Predictor Corrector Method for Real-Time Constrained Parametric Optimization with Applications in Model Predictive Control 2018,		5
122	Zonotope-based set-membership parameter identification of linear systems with additive and multiplicative uncertainties: A new algorithm 2017,		4
121	Deterministic Drift Counteraction Optimal Control for Attitude Control of Spacecraft with Time-Varying Mass 2016,		4
120	Spacecraft Drift Counteraction Optimal Control: Open-Loop and Receding Horizon Solutions. <i>Journal of Guidance, Control, and Dynamics</i> , 2018 , 41, 1859-1872	2.1	4
119	Distributed MPC via ADMM for Coordination and Control of More Electric Aircraft Subsystems 2017		4
118	Constraint Enforcement for a Lighter-than-Air Wind-Energy System: An Application of Reference Governors with Chance Constraints. <i>IFAC-PapersOnLine</i> , 2017 , 50, 13258-13263	0.7	4
117	Control of Gear Ratio and Slip in Continuously Variable Transmissions: A Model Predictive Control Approach 2017,		4
116	Hardware implementation of Model Predictive Control for relative motion maneuvering 2015,		4

115	Robust H _∞ control for a class of networked uncertain systems with multiple channels subject to Markovian switching 2015 ,		4
114	Feedback Control during Mode Transition for a Marine Dual Fuel Engine. <i>IFAC-PapersOnLine</i> , 2015 , 48, 279-284	0.7	4
113	Constraint enforcement of piston motion in a free-piston engine 2014 ,		4
112	Disturbance canceling control based on simple input observers with constraint enforcement for aerospace applications 2014 ,		4
111	Lyapunov-based constrained engine torque control using electronic throttle and variable cam timing 2012 ,		4
110	Estimation of fuel flow for telematics-enabled adaptive fuel and time efficient vehicle routing 2011 ,		4
109	Model predictive control for spacecraft rendezvous and docking with a rotating/tumbling platform and for debris avoidance 2011 ,		4
108	Output-Feedback RLS-Based Model Predictive Control* 2020 ,		4
107	A Reference Governor for Nonlinear Systems With Disturbance Inputs Based on Logarithmic Norms and Quadratic Programming. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 3207-3214	5.9	4
106	Development, implementation, and experimental outdoor evaluation of quadcopter controllers for computationally limited embedded systems. <i>Annual Reviews in Control</i> , 2021 , 52, 372-372	10.3	4
105	Integrated/coordinated control of aircraft gas turbine engine and electrical power system: Towards large electrical load handling 2016 ,		4
104	Thermal Responses of Connected HEVs Engine and Aftertreatment Systems to Eco-Driving 2019 ,		4
103	Combined homotopy and neighboring extremal optimal control. <i>Optimal Control Applications and Methods</i> , 2017 , 38, 459-469	1.7	3
102	Coordinating Controllers for Constrained Linear Systems by Virtual State Governors. <i>IEEE Transactions on Automatic Control</i> , 2015 , 60, 2177-2182	5.9	3
101	Performance Comparison of Smoothing Functions for Indirect Optimization of Minimum-Fuel Low-thrust Trajectories 2018 ,		3
100	Simple Input Disturbance Observer-Based Control: Case Studies. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2018 , 140,	1.6	3
99	MPC on manifolds with an application to SE(3) 2016 ,		3
98	Toward Real-Time Automotive Model Predictive Control: A Perspective from a Diesel Air Path Control Development 2018 ,		3

97	Evolving Markov chain models of driving conditions using onboard learning 2013 ,		3
96	Parameter Governors for Coordinated Control of n-Spacecraft Formations. <i>Journal of Guidance, Control, and Dynamics</i> , 2017 , 40, 3020-3025	2.1	3
95	Developing Fuzzy State Models as Markov Chain Models with Fuzzy Encoding. <i>Studies in Fuzziness and Soft Computing</i> , 2015 , 79-106	0.7	3
94	Onboard learning-based fuel consumption optimization in series hybrid electric vehicles 2012 ,		3
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