

Ilya V Kolmanovsky

List of Publications by Year in descending order

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329
papers

8,582
citations

87843

38
h-index

69214

77
g-index

330
all docs

330
docs citations

330
times ranked

4305
citing authors

#	ARTICLE	IF	CITATIONS
1	Theory and computation of disturbance invariant sets for discrete-time linear systems. <i>Mathematical Problems in Engineering</i> , 1998, 4, 317-367.	0.6	666
2	MPC-Based Energy Management of a Power-Split Hybrid Electric Vehicle. <i>IEEE Transactions on Control Systems Technology</i> , 2012, 20, 593-603.	3.2	552
3	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.	3.2	345
4	Nonlinear tracking control in the presence of state and control constraints: a generalized reference governor. <i>Automatica</i> , 2002, 38, 2063-2073.	3.0	335
5	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.	2.1	331
6	Reference and command governors for systems with constraints: A survey on theory and applications. <i>Automatica</i> , 2017, 75, 306-328.	3.0	278
7	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.	2.1	225
8	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.	2.1	196
9	Turbocharger Modeling for Automotive Control Applications. , 0, , .		187
10	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.	3.2	185
11	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.	3.2	165
12	Application of input estimation techniques to charge estimation and control in automotive engines. <i>Control Engineering Practice</i> , 2002, 10, 1371-1383.	3.2	138
13	Game Theory Controller for Hybrid Electric Vehicles. <i>IEEE Transactions on Control Systems Technology</i> , 2014, 22, 652-663.	3.2	126
14	Reference and command governors: A tutorial on their theory and automotive applications. , 2014, , .		105
15	Power Smoothing Energy Management and Its Application to a Series Hybrid Powertrain. <i>IEEE Transactions on Control Systems Technology</i> , 2013, 21, 2091-2103.	3.2	91
16	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.	3.2	89
17	Adaptive posicast controller for time-delay systems with relative degree n . <i>Automatica</i> , 2010, 46, 279-289.	3.0	84
18	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.	3.2	83

#	ARTICLE	IF	CITATIONS
19	Enhanced Smoothing Technique for Indirect Optimization of Minimum-Fuel Low-Thrust Trajectories. <i>Journal of Guidance, Control, and Dynamics</i> , 2016, 39, 2500-2511.	1.6	81
20	Connected and automated road vehicles: state of the art and future challenges. <i>Vehicle System Dynamics</i> , 2020, 58, 672-704.	2.2	78
21	Constraint Handling in a Fuel Cell System: A Fast Reference Governor Approach. <i>IEEE Transactions on Control Systems Technology</i> , 2007, 15, 86-98.	3.2	75
22	Spark ignition engine fuel-to-air ratio control: An adaptive control approach. <i>Control Engineering Practice</i> , 2010, 18, 1369-1378.	3.2	75
23	Model Predictive Idle Speed Control: Design, Analysis, and Experimental Evaluation. <i>IEEE Transactions on Control Systems Technology</i> , 2011, , .	3.2	68
24	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.	3.2	63
25	Visual-Manual Distraction Detection Using Driving Performance Indicators With Naturalistic Driving Data. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2018, 19, 2528-2535.	4.7	61
26	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.	0.5	60
27	Adaptive Game-Theoretic Decision Making for Autonomous Vehicle Control at Roundabouts. , 2018, , .		60
28	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.	3.2	60
29	Suboptimal Control of Switched Systems With an Application to the DISC Engine. <i>IEEE Transactions on Control Systems Technology</i> , 2008, 16, 189-201.	3.2	59
30	An integrated perturbation analysis and Sequential Quadratic Programming approach for Model Predictive Control. <i>Automatica</i> , 2009, 45, 2412-2418.	3.0	59
31	Switched mode feedback control laws for nonholonomic systems in extended power form. <i>Systems and Control Letters</i> , 1996, 27, 29-36.	1.3	56
32	Generalized Markov Models for Real-Time Modeling of Continuous Systems. <i>IEEE Transactions on Fuzzy Systems</i> , 2014, 22, 983-998.	6.5	54
33	Vehicle Velocity Prediction and Energy Management Strategy Part 1: Deterministic and Stochastic Vehicle Velocity Prediction Using Machine Learning. , 0, , .		54
34	On-line identification of SISO linear time-invariant delay systems from output measurements. <i>Automatica</i> , 2007, 43, 2060-2069.	3.0	53
35	Safe Positively Invariant Sets for Spacecraft Obstacle Avoidance. <i>Journal of Guidance, Control, and Dynamics</i> , 2015, 38, 720-732.	1.6	52
36	Co-state initialization for the minimum-time low-thrust trajectory optimization. <i>Advances in Space Research</i> , 2017, 59, 2360-2373.	1.2	51

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37	Spark-Ignition-Engine Idle Speed Control: An Adaptive Control Approach. IEEE Transactions on Control Systems Technology, 2011, 19, 990-1002.	3.2	49
38	Optimally controlling Hybrid Electric Vehicles using path forecasting. , 2009, , .		47
39	Geometric Mechanics Based Nonlinear Model Predictive Spacecraft Attitude Control with Reaction Wheels. Journal of Guidance, Control, and Dynamics, 2017, 40, 309-319.	1.6	46
40	Real-time optimization and model predictive control for aerospace and automotive applications. , 2018, , .		46
41	Inertia-Free Spacecraft Attitude Control Using Reaction Wheels. Journal of Guidance, Control, and Dynamics, 2013, 36, 1425-1439.	1.6	45
42	MPC on manifolds with an application to the control of spacecraft attitude on SO(3). Automatica, 2017, 76, 293-300.	3.0	43
43	Time-distributed optimization for real-time model predictive control: Stability, robustness, and constraint satisfaction. Automatica, 2020, 117, 108973.	3.0	42
44	Road Risk Modeling and Cloud-Aided Safety-Based Route Planning. IEEE Transactions on Cybernetics, 2016, 46, 2473-2483.	6.2	40
45	Game Theoretic Modeling of Vehicle Interactions at Unsignalized Intersections and Application to Autonomous Vehicle Control. , 2018, , .		39
46	Rate-Based Model Predictive Controller for Diesel Engine Air Path: Design and Experimental Evaluation. IEEE Transactions on Control Systems Technology, 2016, 24, 1922-1935.	3.2	38
47	Hierarchical reasoning game theory based approach for evaluation and testing of autonomous vehicle control systems. , 2016, , .		37
48	Game-Theoretic Modeling of Traffic in Unsignalized Intersection Network for Autonomous Vehicle Control Verification and Validation. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 2211-2226.	4.7	37
49	Parameter governors for discrete-time nonlinear systems with pointwise-in-time state and control constraints. Automatica, 2006, 42, 841-848.	3.0	35
50	Model Predictive Control of Engine Speed During Vehicle Deceleration. IEEE Transactions on Control Systems Technology, 2014, 22, 2205-2217.	3.2	35
51	Game-Theoretic Modeling of Multi-Vehicle Interactions at Uncontrolled Intersections. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 1428-1442.	4.7	35
52	Quad-Rotor Flight Simulation in Realistic Atmospheric Conditions. AIAA Journal, 2020, 58, 1992-2004.	1.5	35
53	Robust Control of Constrained Linear Systems With Bounded Disturbances. IEEE Transactions on Automatic Control, 2012, 57, 2683-2688.	3.6	34
54	Constrained Spacecraft Relative Motion Planning Exploiting Periodic Natural Motion Trajectories and Invariance. Journal of Guidance, Control, and Dynamics, 2017, 40, 3100-3115.	1.6	34

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55	A New Clustering Algorithm for Processing GPS-Based Road Anomaly Reports With a Mahalanobis Distance. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 1980-1988.	4.7	34
56	Shaping low-thrust trajectories with thrust-handling feature. Advances in Space Research, 2018, 61, 879-890.	1.2	34
57	Model Predictive Control of Spacecraft Relative Motion with Convexified Keep-Out-Zone Constraints. Journal of Guidance, Control, and Dynamics, 2018, 41, 2054-2062.	1.6	34
58	Adaptive control allocation for constrained systems. Automatica, 2020, 121, 109161.	3.0	34
59	A Conjugate Gradient-Based BPTT-Like Optimal Control Algorithm With Vehicle Dynamics Control Application. IEEE Transactions on Control Systems Technology, 2011, 19, 1587-1595.	3.2	33
60	A game theoretical model of traffic with multiple interacting drivers for use in autonomous vehicle development. , 2016, , .		33
61	Model Predictive Climate Control of Connected and Automated Vehicles for Improved Energy Efficiency. , 2018, , .		32
62	Sequential optimization of speed, thermal load, and power split in connected HEVs. , 2019, , .		30
63	Embedding Constrained Model Predictive Control in a Continuous-Time Dynamic Feedback. IEEE Transactions on Automatic Control, 2019, 64, 1932-1946.	3.6	30
64	A novel approach for optimal trajectory design with multiple operation modes of propulsion system, part 1. Acta Astronautica, 2020, 172, 151-165.	1.7	30
65	Cloud aided semi-active suspension control. , 2014, , .		29
66	Coordinated Model Predictive Control of Aircraft Gas Turbine Engine and Power System. Journal of Guidance, Control, and Dynamics, 2017, 40, 2538-2555.	1.6	29
67	Reference Governor Strategies for Vehicle Rollover Avoidance. IEEE Transactions on Control Systems Technology, 2018, 26, 1954-1969.	3.2	29
68	A Regularized and Smoothed Fischerâ€œBurmeister Method for Quadratic Programming With Applications to Model Predictive Control. IEEE Transactions on Automatic Control, 2019, 64, 2937-2944.	3.6	29
69	From vehicle stability control to intelligent personal minder: Real-time vehicle handling limit warning and driver style characterization. , 2009, , .		28
70	A stable block model predictive control with variable implementation horizon. Automatica, 2007, 43, 1945-1953.	3.0	26
71	Neighboring Extremal Solution for Nonlinear Discrete-Time Optimal Control Problems With State Inequality Constraints. IEEE Transactions on Automatic Control, 2009, 54, 2674-2679.	3.6	25
72	Reference and extended command governors for control of turbocharged gasoline engines based on linear models. , 2011, , .		25

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73	Markov chain modeling approaches for on board applications. , 2010, , .		24
74	A control allocation technique to recover from pilot-induced oscillations (capio) due to actuator rate limiting. , 2010, , .		24
75	A Finite State Machine Based Automated Driving Controller and its Stochastic Optimization. , 2017, , .		24
76	Model Predictive Control of three dimensional spacecraft relative motion. , 2012, , .		23
77	Nonlinear model predictive control strategy for low thrust spacecraft missions. Optimal Control Applications and Methods, 2014, 35, 1-20.	1.3	23
78	Reference governor for Network Control Systems subject to variable time-delay. Automatica, 2015, 62, 77-86.	3.0	23
79	Trajectory Control of Very Flexible Aircraft with Gust Disturbance. , 2013, , .		22
80	Two-Layer Model Predictive Battery Thermal and Energy Management Optimization for Connected and Automated Electric Vehicles. , 2018, , .		22
81	Attitude Control of a 2U Cubesat by Magnetic and Air Drag Torques. IEEE Transactions on Control Systems Technology, 2019, 27, 1047-1059.	3.2	22
82	On the dynamics and control of through-plane water distributions in PEM fuel cells. Chemical Engineering Science, 2008, 63, 4418-4432.	1.9	21
83	Ultracapacitor assisted powertrains: Modeling, control, sizing, and the impact on fuel economy. , 2008, , .		21
84	Value Iteration for (Switched) Homogeneous Systems. IEEE Transactions on Automatic Control, 2009, 54, 1290-1294.	3.6	21
85	Stochastic dynamic programming control policies for fuel efficient in-traffic driving. , 2012, , .		21
86	Stochastic dynamic programming control policies for fuel efficient vehicle following. , 2013, , .		21
87	Constrained spacecraft attitude control on $SO(3)$ using reference governors and nonlinear model predictive control. , 2014, , .		21
88	Deep Reinforcement Learning with Enhanced Safety for Autonomous Highway Driving. , 2020, , .		21
89	Reduced order reference governor. , 2012, , .		20
90	Fast Computable Recoverable Sets and Their Use for Aircraft Loss-of-Control Handling. Journal of Guidance, Control, and Dynamics, 2017, 40, 934-947.	1.6	20

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91	Integrated optimization of Power Split, Engine Thermal Management, and Cabin Heating for Hybrid Electric Vehicles. , 2019, , .		20
92	Long-Term Vehicle Speed Prediction via Historical Traffic Data Analysis for Improved Energy Efficiency of Connected Electric Vehicles. Transportation Research Record, 2020, 2674, 17-29.	1.0	20
93	Learning reference governor for cycle-to-cycle combustion control with misfire avoidance in spark-ignition engines at high exhaust gas recirculationâ€“diluted conditions. International Journal of Engine Research, 2020, 21, 1819-1834.	1.4	20
94	MEAN-SQUARE STABILITY OF NONLINEAR SYSTEMS WITH TIME-VARYING, RANDOM DELAY. Stochastic Analysis and Applications, 2001, 19, 279-293.	0.9	19
95	Cloud aided safety-based route planning. , 2014, , .		19
96	Stable hierarchical model predictive control using an inner loop reference model and $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si32.gif" display="inline" overflow="scroll" \rangle \langle \text{mml:mi} \rangle \hat{\rho} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -contractive terminal constraint sets. Automatica, 2014, 50, 92-99.	3.0	19
97	Model Predictive Control of an Underactuated Spacecraft with Two Reaction Wheels. Journal of Guidance, Control, and Dynamics, 2017, 40, 320-332.	1.6	19
98	Zonotope-based recursive estimation of the feasible solution set for linear static systems with additive and multiplicative uncertainties. Automatica, 2018, 95, 236-245.	3.0	19
99	Spacecraft Attitude Control With Nonconvex Constraints: An Explicit Reference Governor Approach. IEEE Transactions on Automatic Control, 2020, 65, 3677-3684.	3.6	19
100	Model predictive emissions control of a diesel engine airpath: Design and experimental evaluation. International Journal of Robust and Nonlinear Control, 2020, 30, 7446-7477.	2.1	19
101	Envelope-Aware Flight Management for Loss of Control Prevention Given Rudder Jam. Journal of Guidance, Control, and Dynamics, 2017, 40, 1027-1041.	1.6	18
102	FBstab: A proximally stabilized semismooth algorithm for convex quadratic programming. Automatica, 2020, 113, 108801.	3.0	18
103	A control allocation system for automatic detection and compensation of phase shift due to actuator rate limiting. , 2011, , .		17
104	Model Predictive Control Strategies for Constrained Soft Landing on an Asteroid. , 2016, , .		17
105	Distributed Model Predictive Control for More Electric Aircraft Subsystems Operating at Multiple Time Scales. IEEE Transactions on Control Systems Technology, 2020, 28, 2177-2190.	3.2	17
106	Eco-Cooling Control Strategy for Automotive Air-Conditioning System: Design and Experimental Validation. IEEE Transactions on Control Systems Technology, 2021, 29, 2339-2350.	3.2	17
107	Developments in Constrained Control Using Reference Governors. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 282-290.	0.4	16
108	Reduced order extended command governor. Automatica, 2014, 50, 1466-1472.	3.0	16

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109	Cloud resource allocation for cloud-based automotive applications. <i>Mechatronics</i> , 2018, 50, 356-365.	2.0	16
110	A novel approach for optimal trajectory design with multiple operation modes of propulsion system, part 2. <i>Acta Astronautica</i> , 2020, 172, 166-179.	1.7	16
111	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> , 0, 3, 625-642.	0.2	15
112	Forward-integration Riccati-based output-feedback control of linear time-varying systems. , 2012, , .		15
113	Fixed-point constrained Model Predictive Control of spacecraft attitude. , 2015, , .		15
114	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, .	0.9	15
115	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> , 2022, 30, 1052-1064.	3.2	15
116	Data-Driven Retrospective Cost Adaptive Control for Flight Control Applications. <i>Journal of Guidance, Control, and Dynamics</i> , 2021, 44, 1732-1758.	1.6	15
117	Source Identification for Parabolic Equations. <i>Mathematics of Control, Signals, and Systems</i> , 2003, 16, 141-157.	1.4	14
118	H ∞ Filtering for Cloud-Aided Semi-active Suspension with Delayed Road Information—This work was supported by Ford Motor Company-The University of Michigan Alliance.. <i>IFAC-PapersOnLine</i> , 2015, 48, 275-280.	0.5	14
119	Road anomaly estimation: Model based pothole detection. , 2015, , .		14
120	Fault tolerant control for over-actuated systems: An adaptive correction approach. , 2016, , .		14
121	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.	4.7	14
122	Decision making in dynamic and interactive environments based on cognitive hierarchy theory, Bayesian inference, and predictive control. , 2019, , .		14
123	Robust Science-Optimal Spacecraft Control for Circular Orbit Missions. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020, 50, 923-934.	5.9	14
124	Model-free Learning to Avoid Constraint Violations: An Explicit Reference Governor Approach. , 2019, , .		14
125	Fast reference governors for second-order linear systems with constraints and an input time-delay. <i>Automatica</i> , 2014, 50, 641-645.	3.0	13
126	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.	3.2	13

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127	Stochastic Fuel Efficient Optimal Control of Vehicle Speed. Lecture Notes in Control and Information Sciences, 2014, , 147-162.	0.6	13
128	Boosted Gasoline Direct Injection Engines: Comparison of Throttle and VGT Controllers for Homogeneous Charge Operation. , 2002, , .		12
129	Path dependent receding horizon control policies for Hybrid Electric Vehicles. , 2009, , .		12
130	A generalized Markov Chain modeling approach for on board applications. , 2010, , .		12
131	Model predictive control for spacecraft rendezvous and docking with a rotating/tumbling platform and for debris avoidance. , 2011, , .		12
132	Constrained Model Predictive Control of spacecraft attitude with reaction wheels desaturation. , 2015, , .		12
133	A neural network approach to retinal layer boundary identification from optical coherence tomography images. , 2015, , .		12
134	Constrained control of free piston engine generator based on implicit reference governor. Science China Information Sciences, 2018, 61, 1.	2.7	12
135	Autonomous Eco-Driving with Traffic Light and Lead Vehicle Constraints: An Application of Best Constrained Interpolation. IFAC-PapersOnLine, 2021, 54, 45-50.	0.5	12
136	Best interpolation in a strip II: Reduction to unconstrained convex optimization. Computational Optimization and Applications, 1996, 5, 233-251.	0.9	11
137	Modeling of vehicle driving conditions using transition probability models. , 2011, , .		11
138	Simultaneous road profile estimation and anomaly detection with an input observer and a jump diffusion process estimator. , 2016, , .		11
139	Predictive propulsion and power control for large transient power loads in a More Electric Aircraft. , 2017, , .		11
140	A cascaded economic model predictive control strategy for a diesel engine using a non-uniform prediction horizon discretization. , 2017, , .		11
141	Reference governors for chance-constrained systems. Automatica, 2019, 109, 108500.	3.0	11
142	Integrated Power and Thermal Management of Connected HEVs via Multi-Horizon MPC. , 2020, , .		11
143	Stochastic model predictive control for remanufacturing system management. Journal of Manufacturing Systems, 2021, 59, 355-366.	7.6	11
144	Hybrid feedback stabilization of rotational-translational actuator (RTAC) system. International Journal of Robust and Nonlinear Control, 1998, 8, 367-375.	2.1	10

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145	Nonlinear Dynamic Inversion of a Flexible Aircraft. IFAC-PapersOnLine, 2016, 49, 338-342.	0.5	10
146	Set-membership condition monitoring framework for dual fuel engines. , 2016, , .		10
147	Underactuated Spacecraft Switching Law for Two Reaction Wheels and Constant Angular Momentum. Journal of Guidance, Control, and Dynamics, 2016, 39, 2086-2099.	1.6	10
148	MPC-based Precision Cooling Strategy (PCS) for Efficient Thermal Management of Automotive Air Conditioning System. , 2019, , .		10
149	Explicit Reference Governor for the Constrained Control of Linear Time-Delay Systems. IEEE Transactions on Automatic Control, 2019, 64, 2883-2889.	3.6	10
150	Active Noise Control for Harmonic and Broadband Disturbances Using RLS-Based Model Predictive Control. , 2020, , .		10
151	Neighboring extremal optimal control for mechanical systems on Riemannian manifolds. Journal of Geometric Mechanics, 2016, 8, 257-272.	0.5	10
152	A Multirange Vehicle Speed Prediction With Application to Model Predictive Control-Based Integrated Power and Thermal Management of Connected Hybrid Electric Vehicles. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2022, 144, .	0.9	10
153	Distributed Supervisory Controller Design for Battery Swapping Modularity in Plug-In Hybrid Electric Vehicles. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2012, 134, .	0.9	9
154	Direct Optimal Design for Component Swapping Modularity in Control Systems. IEEE/ASME Transactions on Mechatronics, 2013, 18, 297-306.	3.7	9
155	A tutorial overview of IPA-SQP approach for optimization of constrained nonlinear systems. , 2014, , .		9
156	Deterministic drift counteraction optimal control and its application to satellite life extension. , 2015, , .		9
157	Recovering Linear Controllability of an Underactuated Spacecraft by Exploiting Solar Radiation Pressure. Journal of Guidance, Control, and Dynamics, 2016, 39, 826-837.	1.6	9
158	Integrated/coordinated control of aircraft gas turbine engine and electrical power system: Towards large electrical load handling. , 2016, , .		9
159	MPC on manifolds with an application to SE(3). , 2016, , .		9
160	Reference Governors for Enforcing Compressor Surge Constraints. IEEE Transactions on Control Systems Technology, 2016, 24, 1729-1739.	3.2	9
161	Inexact Newtonâ€™Kantorovich Methods for Constrained Nonlinear Model Predictive Control. IEEE Transactions on Automatic Control, 2019, 64, 3602-3615.	3.6	9
162	Model predictive control for drift counteraction of stochastic constrained linear systems. Automatica, 2021, 123, 109304.	3.0	9

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163	An Analysis of Closed-Loop Stability for Linear Model Predictive Control Based on Time-Distributed Optimization. IEEE Transactions on Automatic Control, 2022, 67, 2618-2625.	3.6	9
164	Output-Feedback RLS-Based Model Predictive Control. , 2020, , .		9
165	Reference Governor-based fault-tolerant constrained control. Automatica, 2022, 136, 110089.	3.0	9
166	Automotive Powertrain Control Problems Involving Time Delay: An Adaptive Control Approach. , 2008, , .		8
167	Further developments and applications of network reference governor for constrained systems. , 2012, , .		8
168	Disturbance canceling control based on simple input observers with constraint enforcement for aerospace applications. , 2014, , .		8
169	Dual-loop Control of Free Piston Engine Generator. IFAC-PapersOnLine, 2015, 48, 174-180.	0.5	8
170	Constrained control for soft landing on an asteroid with gravity model uncertainty. , 2016, , .		8
171	Stability, Control, and Constraint Enforcement of Piston Motion in a Hydraulic Free-Piston Engine. IEEE Transactions on Control Systems Technology, 2017, 25, 1284-1296.	3.2	8
172	Optimal Driving Policies for Autonomous Vehicles Based on Stochastic Drift Counteraction. IFAC-PapersOnLine, 2017, 50, 290-296.	0.5	8
173	Game Theory-Based Traffic Modeling for Calibration of Automated Driving Algorithms. Lecture Notes in Control and Information Sciences, 2019, , 89-106.	0.6	8
174	A Traffic Simulation Model with Interactive Drivers and High-fidelity Car Dynamics. IFAC-PapersOnLine, 2019, 51, 384-389.	0.5	8
175	A Reference Governor for Nonlinear Systems With Disturbance Inputs Based on Logarithmic Norms and Quadratic Programming. IEEE Transactions on Automatic Control, 2020, 65, 3207-3214.	3.6	8
176	Rapid uncertainty propagation and chance-constrained path planning for small unmanned aerial vehicles. Advanced Control for Applications, 2020, 2, e23.	0.8	8
177	Distributed State Estimation for Linear Systems With Application to Full-Car Active Suspension Systems. IEEE Transactions on Industrial Electronics, 2021, 68, 1615-1625.	5.2	8
178	A Dynamic Semi-Analytic Channel-to-Channel Model of Two-Phase Water Distribution for a Unit Fuel Cell. IEEE Transactions on Control Systems Technology, 2009, 17, 1055-1068.	3.2	7
179	Constrained actuator coordination by virtual state governing. , 2011, , .		7
180	Adaptive control approach for cylinder balancing in a hydraulic linear engine. , 2013, , .		7

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181	Reference and command governors for systems with slowly time-varying references and time-dependent constraints. , 2014, , .		7
182	Stochastic drift counteraction optimal control and enhancing convergence of value iteration. , 2016, , .		7
183	Model-free optimal control based automotive control system falsification. , 2017, , .		7
184	Control of Gear Ratio and Slip in Continuously Variable Transmissions: A Model Predictive Control Approach. , 2017, , .		7
185	Simple Input Disturbance Observer-Based Control: Case Studies. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2018, 140, .	0.9	7
186	A Semismooth Predictor Corrector Method for Real-Time Constrained Parametric Optimization with Applications in Model Predictive Control. , 2018, , .		7
187	Optimized Design of Multi-Speed Transmissions for Battery Electric Vehicles. , 2019, , .		7
188	Stochastic Driver Modeling and Validation with Traffic Data. , 2019, , .		7
189	Automotive Applications of Model Predictive Control. Control Engineering, 2019, , 493-527.	0.3	7
190	Hierarchical Optimization of Speed and Gearshift Control for Battery Electric Vehicles Using Preview Information. , 2020, , .		7
191	Development, implementation, and experimental outdoor evaluation of quadcopter controllers for computationally limited embedded systems. Annual Reviews in Control, 2021, 52, 372-389.	4.4	7
192	Chance-constrained controller state and reference governor. Automatica, 2021, 133, 109864.	3.0	7
193	Optimal and receding horizon drift counteraction control: Linear programming approaches. , 2017, , .		7
194	Model-free Learning for Safety-critical Control Systems: A Reference Governor Approach. , 2020, , .		7
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