

Ilya V Kolmanovsky

List of Publications by Year in descending order

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329
papers

8,582
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87843

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330
times ranked

4305
citing authors

#	ARTICLE	IF	CITATIONS
1	MPC-Based Emergency Vehicle-Centered Multi-Intersection Traffic Control. IEEE Transactions on Control Systems Technology, 2023, 31, 166-178.	3.2	7
2	Game-Theoretic Modeling of Multi-Vehicle Interactions at Uncontrolled Intersections. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 1428-1442.	4.7	35
3	Robust Action Governor for Discrete-Time Piecewise Affine Systems With Additive Disturbances. , 2022, 6, 950-955.		1
4	Multihorizon Model Predictive Control: An Application to Integrated Power and Thermal Management of Connected Hybrid Electric Vehicles. IEEE Transactions on Control Systems Technology, 2022, 30, 1052-1064.	3.2	15
5	Scalable Vehicle Team Continuum Deformation Coordination With Eigen Decomposition. IEEE Transactions on Automatic Control, 2022, 67, 2514-2521.	3.6	1
6	Set-Theoretic Failure Mode Reconfiguration for Stuck Actuators. , 2022, 6, 1316-1321.		1
7	Coordinated Receding-Horizon Control of Battery Electric Vehicle Speed and Gearshift Using Relaxed Mixed-Integer Nonlinear Programming. IEEE Transactions on Control Systems Technology, 2022, 30, 1473-1483.	3.2	5
8	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
9	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
10	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
11	A Feasibility Governor for Enlarging the Region of Attraction of Linear Model Predictive Controllers. IEEE Transactions on Automatic Control, 2022, 67, 5501-5508.	3.6	5
12	Reference Governor-based fault-tolerant constrained control. Automatica, 2022, 136, 110089.	3.0	9
13	ROTEC: Robust to early termination command governor for systems with limited computing capacity. Systems and Control Letters, 2022, 161, 105142.	1.3	4
14	Improving autonomous vehicle in-traffic safety using learning-based action governor. Advanced Control for Applications, 2022, 4, .	0.8	2
15	A reference governor for linear systems with polynomial constraints. Automatica, 2022, 142, 110313.	3.0	4
16	Implementing Optimization-Based Control Tasks in Cyber-Physical Systems With Limited Computing Capacity. , 2022, , .		3
17	Hierarchical MPC for Robust Eco-Cooling of Connected and Automated Vehicles and Its Application to Electric Vehicle Battery Thermal Management. IEEE Transactions on Control Systems Technology, 2021, 29, 316-328.	3.2	60
18	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

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19	Full State Feedback Foiling Control for America's Cup Catamarans. IEEE Transactions on Control Systems Technology, 2021, 29, 1-17.	3.2	4
20	Action Governor for Discrete-Time Linear Systems With Non-Convex Constraints. , 2021, 5, 121-126.		5
21	Model predictive control for drift counteraction of stochastic constrained linear systems. Automatica, 2021, 123, 109304.	3.0	9
22	An Analytical Safe Approximation to Joint Chance-Constrained Programming With Additive Gaussian Noises. IEEE Transactions on Automatic Control, 2021, 66, 5490-5497.	3.6	3
23	Fuzzy Encoded Markov Chains: Overview, Observer Theory, and Applications. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 116-130.	5.9	2
24	Stochastic Drift Counteraction Optimal Control of a Fuel Cell-Powered Small Unmanned Aerial Vehicle. Energies, 2021, 14, 1304.	1.6	1
25	Stochastic model predictive control for remanufacturing system management. Journal of Manufacturing Systems, 2021, 59, 355-366.	7.6	11
26	Feasibility Governor for Linear Model Predictive Control. , 2021, , .		2
27	Nonlinear Model Predictive Detumbling of Small Satellites with a Single-Axis Magnetorquer. Journal of Guidance, Control, and Dynamics, 2021, 44, 1211-1218.	1.6	2
28	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
29	Safe Affine Transformation-Based Guidance of a Large-Scale Multiquadcopter System. IEEE Transactions on Control of Network Systems, 2021, 8, 640-653.	2.4	6
30	A sum-of-squares-based procedure to approximate the Pontryagin difference of basic semi-algebraic sets. Automatica, 2021, 135, 109783.	3.0	0
31	Viability, viscosity, and storage functions in model-predictive control with terminal constraints. Automatica, 2021, 131, 109748.	3.0	1
32	Data-Driven Retrospective Cost Adaptive Control for Flight Control Applications. Journal of Guidance, Control, and Dynamics, 2021, 44, 1732-1758.	1.6	15
33	Chance-constrained controller state and reference governor. Automatica, 2021, 133, 109864.	3.0	7
34	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
35	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
36	Safe Learning Reference Governor: Theory and Application to Fuel Truck Rollover Avoidance. ASME Journal of Autonomous Vehicles and Systems, 2021, 1, .	0.6	5

#	ARTICLE	IF	CITATIONS
37	Cooperation-Aware Decision Making for Autonomous Vehicles in Merge Scenarios. , 2021, , .		5
38	Corrections to "Safe Affine Transformation-Based Guidance of a Large-Scale Multiquadcopter System" [Jun 21 640-653]. IEEE Transactions on Control of Network Systems, 2021, 8, 1987-1987.	2.4	0
39	An ADMM-based approach for multi-class recursive parameter estimation. , 2021, , .		0
40	A Convex Optimization Approach to Chance-Constrained Linear Stochastic Drift Counteraction Optimal Control. , 2021, , .		0
41	Robust Science-Optimal Spacecraft Control for Circular Orbit Missions. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 923-934.	5.9	14
42	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
43	A Model-Based Approach to the Estimation and Control of a Continuously Variable Transmission. IEEE Transactions on Control Systems Technology, 2020, 28, 1940-1947.	3.2	1
44	Cabin and Battery Thermal Management of Connected and Automated HEVs for Improved Energy Efficiency Using Hierarchical Model Predictive Control. IEEE Transactions on Control Systems Technology, 2020, 28, 1711-1726.	3.2	89
45	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
46	Sensitivity-Based Warmstarting for Nonlinear Model Predictive Control With Polyhedral State and Control Constraints. IEEE Transactions on Automatic Control, 2020, 65, 4288-4294.	3.6	3
47	Rapid uncertainty propagation and chance-constrained path planning for small unmanned aerial vehicles. Advanced Control for Applications, 2020, 2, e23.	0.8	8
48	Spacecraft Attitude Control With Nonconvex Constraints: An Explicit Reference Governor Approach. IEEE Transactions on Automatic Control, 2020, 65, 3677-3684.	3.6	19
49	Model-Predictive Spiral and Spin Upset Recovery Control for the Generic Transport Model Simulation. , 2020, , .		1
50	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
51	Detection-averse optimal and receding-horizon control for Markov decision processes. Automatica, 2020, 122, 109278.	3.0	4
52	Adaptive control allocation for constrained systems. Automatica, 2020, 121, 109161.	3.0	34
53	Energy-Efficient Autonomous Vehicle Control Using Reinforcement Learning and Interactive Traffic Simulations. , 2020, , .		6
54	Active Noise Control for Harmonic and Broadband Disturbances Using RLS-Based Model Predictive Control. , 2020, , .		10

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55	Cooperative constrained parameter estimation by ADMM-RLS. Automatica, 2020, 121, 109175.	3.0	5
56	A constraint-separation principle in model predictive control. Automatica, 2020, 121, 109190.	3.0	3
57	Hierarchical Optimization of Speed and Gearshift Control for Battery Electric Vehicles Using Preview Information. , 2020, , .		7
58	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
59	Integrated Power and Thermal Management of Connected HEVs via Multi-Horizon MPC. , 2020, , .		11
60	Adaptive Control of Discrete-Time Systems with Unknown, Unstable Zero Dynamics. , 2020, , .		4
61	Spacecraft Relative Motion Planning Using Chained Chance-Constrained Admissible Sets. , 2020, , .		1
62	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
63	Connected and automated road vehicles: state of the art and future challenges. Vehicle System Dynamics, 2020, 58, 672-704.	2.2	78
64	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
65	A novel approach for optimal trajectory design with multiple operation modes of propulsion system, part 2. Acta Astronautica, 2020, 172, 166-179.	1.7	16
66	FBstab: A proximally stabilized semismooth algorithm for convex quadratic programming. Automatica, 2020, 113, 108801.	3.0	18
67	Explicit Reference Governor for Constrained Maneuver and Shape Control of a Seven-State Multibody Aircraft. , 2020, , .		0
68	Time-distributed optimization for real-time model predictive control: Stability, robustness, and constraint satisfaction. Automatica, 2020, 117, 108973.	3.0	42
69	Quad-Rotor Flight Simulation in Realistic Atmospheric Conditions. AIAA Journal, 2020, 58, 1992-2004.	1.5	35
70	Deep Reinforcement Learning with Enhanced Safety for Autonomous Highway Driving. , 2020, , .		21
71	Output-Feedback RLS-Based Model Predictive Control. , 2020, , .		9
72	Approximating open-loop and closed-loop optimal control by model predictive control. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
73	Triggered Measurements in Markov Processes for Entropy-Constrained State Estimation with Application to Precision Agriculture. , 2020, , .		0
74	Trajectory Optimization for Falsification:A Case Study of Vehicle Rollover Test Generation Based on Black-box Models. IFAC-PapersOnLine, 2020, 53, 14279-14284.	0.5	1
75	Aircraft Vision-Based Landing Using Robust Extended Command Governors. IFAC-PapersOnLine, 2020, 53, 14716-14723.	0.5	2
76	Model-free Learning for Safety-critical Control Systems: A Reference Governor Approach. , 2020, , .		7
77	Vision-Based Autonomous Driving: A Model Learning Approach. , 2020, , .		3
78	Beating humans in a penny-matching game by leveraging cognitive hierarchy theory and Bayesian learning. , 2020, , .		5
79	Game Theory-Based Traffic Modeling for Calibration of Automated Driving Algorithms. Lecture Notes in Control and Information Sciences, 2019, , 89-106.	0.6	8
80	Reference governors for chance-constrained systems. Automatica, 2019, 109, 108500.	3.0	11
81	A Traffic Simulation Model with Interactive Drivers and High-fidelity Car Dynamics. IFAC-PapersOnLine, 2019, 51, 384-389.	0.5	8
82	Stochastic Predictive Control for Partially Observable Markov Decision Processes With Time-Joint Chance Constraints and Application to Autonomous Vehicle Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2019, 141, .	0.9	15
83	A vehicle routing problem with dynamic demands and restricted failures solved using stochastic predictive control. , 2019, , .		1
84	On Closed-loop Lyapunov Stability with Minimum-time MPC Feedback Laws for Discrete-time Systems. , 2019, , .		6
85	The FBstab Quadratic Programming Method Applied to Model Predictive Control: An Implicit Condensing Approach. , 2019, , .		2
86	Thermal Responses of Connected HEVs Engine and Aftertreatment Systems to Eco-Driving. , 2019, , .		5
87	Integrated optimization of Power Split, Engine Thermal Management, and Cabin Heating for Hybrid Electric Vehicles. , 2019, , .		20
88	Optimized Design of Multi-Speed Transmissions for Battery Electric Vehicles. , 2019, , .		7
89	Decision making in dynamic and interactive environments based on cognitive hierarchy theory, Bayesian inference, and predictive control. , 2019, , .		14
90	Sequential optimization of speed, thermal load, and power split in connected HEVs. , 2019, , .		30

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91	Robust Hierarchical MPC for Handling Long Horizon Demand Forecast Uncertainty with Application to Automotive Thermal Management. , 2019, , .		2
92	Stochastic Driver Modeling and Validation with Traffic Data. , 2019, , .		7
93	Model Predictive Control with Constraint Aggregation Applied to Conventional and Very Flexible Aircraft*. , 2019, , .		2
94	Scalar Reference Governor for Constrained Maneuver and Shape Control of Nonlinear Multibody Aircraft. IFAC-PapersOnLine, 2019, 52, 819-824.	0.5	2
95	Multi-mode Controller for Propellantless Spacecraft Translational Maneuvering Through Orientation Changes Only. IFAC-PapersOnLine, 2019, 52, 825-830.	0.5	0
96	Scenario Based Stochastic MPC for More Electric Aircraft Coordinated Engine and Power Management. , 2019, , .		2
97	MPC-based Precision Cooling Strategy (PCS) for Efficient Thermal Management of Automotive Air Conditioning System. , 2019, , .		10
98	Automotive Applications of Model Predictive Control. Control Engineering, 2019, , 493-527.	0.3	7
99	Embedding Constrained Model Predictive Control in a Continuous-Time Dynamic Feedback. IEEE Transactions on Automatic Control, 2019, 64, 1932-1946.	3.6	30
100	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
101	Inexact Newtonâ€œKantorovich Methods for Constrained Nonlinear Model Predictive Control. IEEE Transactions on Automatic Control, 2019, 64, 3602-3615.	3.6	9
102	LQ control of unknown discreteâ€œtime linear systemsâ€œ”A novel approach and a comparison study. Optimal Control Applications and Methods, 2019, 40, 265-291.	1.3	6
103	Model Predictive Control Architectures for Maneuver Load Alleviation in Very Flexible Aircraft. , 2019, , .		4
104	Minimum-Time Model Predictive Spacecraft Attitude Control for Waypoint Following and Exclusion Zone Avoidance. , 2019, , .		1
105	Explicit Reference Governor for the Constrained Control of Linear Time-Delay Systems. IEEE Transactions on Automatic Control, 2019, 64, 2883-2889.	3.6	10
106	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
107	Model-free Learning to Avoid Constraint Violations: An Explicit Reference Governor Approach. , 2019, , .		14
108	Combined Energy and Comfort Optimization of Air Conditioning System in Connected and Automated Vehicles. , 2019, , .		5

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109	Training Drift Counteraction Optimal Control Policies Using Reinforcement Learning: An Adaptive Cruise Control Example. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 2903-2912.	4.7	14
110	Performance Comparison of Smoothing Functions for Indirect Optimization of Minimum-Fuel Low-thrust Trajectories. , 2018, , .		3
111	Complex Interplanetary Trajectories Design with Low-Thrust Based Motion Primitives. , 2018, , .		0
112	On Satellite Orbit Decay Compensation in Low Earth Orbits. , 2018, , .		2
113	An Evaluation of Stochastic Model-Dependent and Model-Independent Glider Flight Management. IEEE Transactions on Control Systems Technology, 2018, 26, 1040-1056.	3.2	2
114	Game Theoretic Modeling of Driver and Vehicle Interactions for Verification and Validation of Autonomous Vehicle Control Systems. IEEE Transactions on Control Systems Technology, 2018, 26, 1782-1797.	3.2	165
115	Simple Input Disturbance Observer-Based Control: Case Studies. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2018, 140, .	0.9	7
116	Visual-Manual Distraction Detection Using Driving Performance Indicators With Naturalistic Driving Data. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 2528-2535.	4.7	61
117	Reference Governor Strategies for Vehicle Rollover Avoidance. IEEE Transactions on Control Systems Technology, 2018, 26, 1954-1969.	3.2	29
118	Cloud resource allocation for cloud-based automotive applications. Mechatronics, 2018, 50, 356-365.	2.0	16
119	Shaping low-thrust trajectories with thrust-handling feature. Advances in Space Research, 2018, 61, 879-890.	1.2	34
120	Two-Layer Model Predictive Battery Thermal and Energy Management Optimization for Connected and Automated Electric Vehicles. , 2018, , .		22
121	Adaptive Game-Theoretic Decision Making for Autonomous Vehicle Control at Roundabouts. , 2018, , .		60
122	A Semismooth Predictor Corrector Method for Real-Time Constrained Parametric Optimization with Applications in Model Predictive Control. , 2018, , .		7
123	Tractable Stochastic Predictive Control for Partially Observable Markov Decision Processes with Time-Joint Chance Constraints. , 2018, , .		3
124	Drift Counteraction and Control of Downsized and Underactuated Systems: What MPC Has to Offer?. IFAC-PapersOnLine, 2018, 51, 175-190.	0.5	3
125	Optimal Control Based Falsification of Unknown Systems with Time Delays: A Gasoline Engine A/F Ratio Control Case Study. IFAC-PapersOnLine, 2018, 51, 252-257.	0.5	3
126	Model Predictive Climate Control of Connected and Automated Vehicles for Improved Energy Efficiency. , 2018, , .		32

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127	A Study on GPU-Enabled Lambert's Problem Solution for Space Targeting Missions. , 2018, , .		2
128	Stochastic MPC Approach to Drift Counteraction. , 2018, , .		2
129	Dynamically Embedded Model Predictive Control. , 2018, , .		3
130	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
131	Constrained control of free piston engine generator based on implicit reference governor. Science China Information Sciences, 2018, 61, 1.	2.7	12
132	Coordinated Model Predictive Control of Aircraft Gas Turbine Engine with Simplified Electrical System Model. , 2018, , .		0
133	Rapid Uncertainty Propagation and Chance-Constrained Trajectory Optimization for Small Unmanned Aerial Vehicles. , 2018, , .		3
134	Invariance-based Spacecraft Relative Motion Planning Incorporating Bounded Disturbances and Minimum Thrust Constraints. , 2018, , .		3
135	Spacecraft Drift Counteraction Optimal Control: Open-Loop and Receding Horizon Solutions. Journal of Guidance, Control, and Dynamics, 2018, 41, 1859-1872.	1.6	6
136	Game Theoretic Modeling of Vehicle Interactions at Unsignalized Intersections and Application to Autonomous Vehicle Control. , 2018, , .		39
137	Cloud-aided collaborative estimation by ADMM-RLS algorithms for connected diagnostics and prognostics. , 2018, , .		3
138	Toward Real-Time Automotive Model Predictive Control: A Perspective from a Diesel Air Path Control Development. , 2018, , .		5
139	Real-time optimization and model predictive control for aerospace and automotive applications. , 2018, , .		46
140	Solution to the HJB equation for LQR-type problems on compact connected Lie groups. Automatica, 2018, 95, 525-528.	3.0	2
141	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
142	Optimal Strategies for Disjunctive Sensing and Control. , 2018, , .		2
143	Energy-Efficient Control Approach for Automated HEV and BEV With Short-Horizon Preview Information. , 2018, , .		5
144	Combined homotopy and neighboring extremal optimal control. Optimal Control Applications and Methods, 2017, 38, 459-469.	1.3	3

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145	Approximate Closed-Form Solution to a Linear Quadratic Optimal Control Problem with Disturbance. Journal of Guidance, Control, and Dynamics, 2017, 40, 477-483.	1.6	2
146	Co-state initialization for the minimum-time low-thrust trajectory optimization. Advances in Space Research, 2017, 59, 2360-2373.	1.2	51
147	Iterative model and trajectory refinement for orbital trajectory optimization. Optimal Control Applications and Methods, 2017, 38, 1132-1147.	1.3	1
148	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
149	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
150	MPC on manifolds with an application to the control of spacecraft attitude on SO(3). Automatica, 2017, 76, 293-300.	3.0	43
151	Predictive propulsion and power control for large transient power loads in a More Electric Aircraft. , 2017, , .		11
152	A cascaded economic model predictive control strategy for a diesel engine using a non-uniform prediction horizon discretization. , 2017, , .		11
153	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
154	Model-free optimal control based automotive control system falsification. , 2017, , .		7
155	Drift counteraction optimal control for deterministic systems and enhancing convergence of value iteration. Automatica, 2017, 83, 108-115.	3.0	5
156	Parameter Governors for Coordinated Control of n-Spacecraft Formations. Journal of Guidance, Control, and Dynamics, 2017, 40, 3020-3025.	1.6	6
157	Distributed MPC via ADMM for Coordination and Control of More Electric Aircraft Subsystems. , 2017, , .		5
158	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
159	Reference and command governors for systems with constraints: A survey on theory and applications. Automatica, 2017, 75, 306-328.	3.0	278
160	Optimal State Estimation for Systems Driven by Jumpâ€“Diffusion Process With Application to Road Anomaly Detection. IEEE Transactions on Control Systems Technology, 2017, 25, 1634-1643.	3.2	13
161	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
162	Model Predictive Control of an Underactuated Spacecraft with Two Reaction Wheels. Journal of Guidance, Control, and Dynamics, 2017, 40, 320-332.	1.6	19

#	ARTICLE	IF	CITATIONS
163	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
164	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
165	A Finite State Machine Based Automated Driving Controller and its Stochastic Optimization. , 2017, , .		24
166	Optimal Driving Policies for Autonomous Vehicles Based on Stochastic Drift Counteraction. IFAC-PapersOnLine, 2017, 50, 290-296.	0.5	8
167	Constraint Enforcement for a Lighter-than-Air Wind-Energy System: An Application of Reference Governors with Chance Constraints. IFAC-PapersOnLine, 2017, 50, 13258-13263.	0.5	4
168	Incorporating periodic and non-periodic natural motion trajectories into constrained invariance-based spacecraft relative motion planning. , 2017, , .		6
169	Control of Gear Ratio and Slip in Continuously Variable Transmissions: A Model Predictive Control Approach. , 2017, , .		7
170	Zonotope-based set-membership parameter identification of linear systems with additive and multiplicative uncertainties: A new algorithm. , 2017, , .		6
171	A new algorithm for a class of deterministic drift counteraction optimal control problems. , 2017, , .		1
172	H-infinity Filtering for Cloud-Aided Semi-active Suspension with Delayed Information. Advances in Delays and Dynamics, 2017, , 283-297.	0.4	1
173	Optimal and receding horizon drift counteraction control: Linear programming approaches. , 2017, , .		7
174	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
175	Co-states initialization of minimum-time low-thrust trajectories using shape-based methods. , 2016, , .		3
176	Failure Prognostics for In-Tank Fuel Pumps of the Returnless Fuel Systems. , 2016, , .		3
177	Stochastic drift counteraction optimal control and enhancing convergence of value iteration. , 2016, , .		7
178	Constrained control for soft landing on an asteroid with gravity model uncertainty. , 2016, , .		8
179	A Perturbed Chord (Newton-Kantorovich) Method for Constrained Nonlinear Model Predictive Control. IFAC-PapersOnLine, 2016, 49, 253-258.	0.5	6
180	Integrated/coordinated control of aircraft gas turbine engine and electrical power system: Towards large electrical load handling. , 2016, , .		9

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181	Time Shift Governor for Coordinated Control of Two Spacecraft Formations. IFAC-PapersOnLine, 2016, 49, 296-301.	0.5	6
182	Hierarchical reasoning game theory based approach for evaluation and testing of autonomous vehicle control systems. , 2016, , .		37
183	Nonlinear Dynamic Inversion of a Flexible Aircraft. IFAC-PapersOnLine, 2016, 49, 338-342.	0.5	10
184	Set-membership condition monitoring framework for dual fuel engines. , 2016, , .		10
185	Nonlinear control of semi-active suspension systems: A Quasi-Linear Control approach. , 2016, , .		4
186	Enhanced Smoothing Technique for Indirect Optimization of Minimum-Fuel Low-Thrust Trajectories. Journal of Guidance, Control, and Dynamics, 2016, 39, 2500-2511.	1.6	81
187	Fault tolerant control for over-actuated systems: An adaptive correction approach. , 2016, , .		14
188	MPC on manifolds with an application to SE(3). , 2016, , .		9
189	Model Predictive Control Strategies for Constrained Soft Landing on an Asteroid. , 2016, , .		17
190	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
191	A game theoretical model of traffic with multiple interacting drivers for use in autonomous vehicle development. , 2016, , .		33
192	Simultaneous road profile estimation and anomaly detection with an input observer and a jump diffusion process estimator. , 2016, , .		11
193	Constrained attitude maneuvering of a spacecraft with reaction wheel assembly by Nonlinear Model Predictive Control. , 2016, , .		2
194	Deterministic Drift Counteraction Optimal Control for Attitude Control of Spacecraft with Time-Varying Mass. , 2016, , .		4
195	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
196	Reference Governors for Enforcing Compressor Surge Constraints. IEEE Transactions on Control Systems Technology, 2016, 24, 1729-1739.	3.2	9
197	Road Risk Modeling and Cloud-Aided Safety-Based Route Planning. IEEE Transactions on Cybernetics, 2016, 46, 2473-2483.	6.2	40
198	Neighboring extremal optimal control for mechanical systems on Riemannian manifolds. Journal of Geometric Mechanics, 2016, 8, 257-272.	0.5	10

#	ARTICLE	IF	CITATIONS
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