List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Information-Driven Path Planning for UAV With Limited Autonomy in Large-Scale Field Monitoring. IEEE Transactions on Automation Science and Engineering, 2022, 19, 2450-2460.	5.2	11
2	Modelling and control of a knuckle boom crane. International Journal of Control, 2022, 95, 2420-2437.	1.9	4
3	Faster and Healthier Charging of Lithium-Ion Batteries via Constrained Feedback Control. IEEE Transactions on Control Systems Technology, 2022, 30, 1990-2001.	5.2	7
4	A Project-Based Learning Approach for Building an Affordable Control Teaching Lab: The Centrifugal Ring Positioner. IEEE Access, 2022, 10, 4907-4918.	4.2	3
5	A two-layer distributed MPC approach to thermal control of Multiprocessor Systems-on-Chip. Control Engineering Practice, 2022, 122, 105099.	5.5	5
6	Command Governors with Inexact Optimization and Without Invariance. Journal of Guidance, Control, and Dynamics, 2022, 45, 1523-1528.	2.8	2
7	Modelling ectotherms' populations considering physiological age structure and spatial motion: A novel approach. Ecological Informatics, 2022, 70, 101703.	5.2	8
8	New conditions for finiteâ€ŧime stability of impulsive dynamical systems via piecewise quadratic functions. IET Control Theory and Applications, 2022, 16, 1341-1351.	2.1	2
9	Low-Complexity Fast Charging Strategies Based on Explicit Reference Governors for Li-Ion Battery Cells. IEEE Transactions on Control Systems Technology, 2021, 29, 1597-1608.	5.2	4
10	Nonlinear MPC for Tracking for a Class of Nonconvex Admissible Output Sets. IEEE Transactions on Automatic Control, 2021, 66, 3726-3732.	5.7	8
11	Smart testing and selective quarantine for the control of epidemics. Annual Reviews in Control, 2021, 51, 540-550.	7.9	11
12	Review of Cyber-Physical Attacks in Smart Grids: A System-Theoretic Perspective. Electronics (Switzerland), 2021, 10, 1153.	3.1	15
13	Constrained Control with Communication Blackouts: Theory and Experimental Validation over Wi-Fi. , 2021, , .		0
14	Nonlinear Model Predictive Control of a 5-DoFs Boom Crane. , 2021, , .		1
15	Camera and inertial sensor fusion for the PnP problem: algorithms and experimental results. Machine Vision and Applications, 2021, 32, 1.	2.7	2
16	Reference dependent invariant sets: Sum of squares based computation and applications in constrained control. Automatica, 2021, 129, 109614.	5.0	9
17	Thrust vector control of constrained multibody systems. Automatica, 2021, 129, 109586.	5.0	3
18	Control of a multirobot bricklaying system. Advanced Control for Applications, 2021, 3, e90.	1.7	2

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#	Article	IF	CITATIONS
19	A general ODE-based model to describe the physiological age structure of ectotherms: Description and application to Drosophila suzukii. Ecological Modelling, 2021, 456, 109673.	2.5	11
20	Local Decomposition of Kalman Filters and its Application for Secure State Estimation. IEEE Transactions on Automatic Control, 2021, 66, 5037-5044.	5.7	10
21	A distributed optimal power management system for microgrids with plug&play capabilities. Advanced Control for Applications, 2021, 3, .	1.7	16
22	MP-STSP: A Multi-Platform Steiner Traveling Salesman Problem Formulation for Precision Agriculture in Orchards. , 2021, , .		2
23	On the effect of the number of tests and their time of application in tracing policies against COVID-19 IFAC-PapersOnLine, 2021, 54, 157-162.	0.9	2
24	An Explicit Reference Governor for the Intersection of Concave Constraints. IEEE Transactions on Automatic Control, 2020, 65, 1-11.	5.7	29
25	Constrained Control of Depth of Hypnosis During Induction Phase. IEEE Transactions on Control Systems Technology, 2020, 28, 2490-2496.	5.2	10
26	Output Admissible Sets and Reference Governors: Saturations Are Not Constraints!. IEEE Transactions on Automatic Control, 2020, 65, 1192-1196.	5.7	6
27	Constrained Control of Linear Discrete-Time Systems Under Quartic Performance Criterion. , 2020, 4, 301-306.		1
28	Reference Governor for Constrained Control Over Lossy Channels. , 2020, 4, 271-276.		4
29	Suckers Emission Detection and Volume Estimation for the Precision Farming of Hazelnut Orchards. , 2020, , .		8
30	Modeling, Simulation and Optimal Operation of Multi-Extraction Packed-Bed Thermal Storage Systems. Energies, 2020, 13, 2247.	3.1	2
31	Safety enforcement in closed-loop anesthesia—A comparison study. Control Engineering Practice, 2020, 105, 104653.	5.5	4
32	MPC strategies based on the equivalent hydraulic model for the fast charge of commercial Li-ion batteries. Computers and Chemical Engineering, 2020, 141, 107010.	3.8	9
33	A Navigation Architecture for Ackermann Vehicles in Precision Farming. IEEE Robotics and Automation Letters, 2020, 5, 1103-1110.	5.1	22
34	Geodesic Approach for the Control of Tethered Quadrotors. Journal of Guidance, Control, and Dynamics, 2020, 43, 854-862.	2.8	2
35	Explicit Reference Governor for Constrained Maneuver and Shape Control of a Seven-State Multibody Aircraft. , 2020, , .		0

36 Constraint Control of a Boom Crane System. , 2020, , .

#	Article	IF	CITATIONS
37	Modeling and Control of 5-DoF Boom Crane. , 2020, , .		9
38	A New Reference Governor Strategy For Union of Linear Constraints. IFAC-PapersOnLine, 2020, 53, 5499-5504.	0.9	1
39	A comparison of low-complexity charging and balancing protocols with degradation awareness for a string of Li-ion cells. IFAC-PapersOnLine, 2020, 53, 11570-11576.	0.9	Ο
40	Carrier-vehicle system for delivery in city environments. IFAC-PapersOnLine, 2020, 53, 15253-15258.	0.9	6
41	Fast Charge of Li-ion Batteries using a Two-Layer Distributed MPC with Electro-Chemical and Thermal Constraints. , 2019, , .		2
42	An Explicit Reference Governor Scheme for Closed-Loop Anesthesia. , 2019, , .		12
43	Precision Stationary Flight of a Robotic Hummingbird. , 2019, , .		4
44	A feedback charge strategy for Li-ion battery cells based on Reference Governor. Journal of Process Control, 2019, 83, 164-176.	3.3	18
45	Newton-based extremum seeking: A second-order Lie bracket approximation approach. Automatica, 2019, 105, 356-367.	5.0	24
46	Control of a quadrotor and a ground vehicle manipulating an object. Automatica, 2019, 105, 384-390.	5.0	17
47	Constrained Control of Linear Systems Subject to Combinations of Intersections and Unions of Concave Constraints. , 2019, 3, 571-576.		21
48	MIMO tracking control of LTI systems: A geometric approach. Systems and Control Letters, 2019, 126, 8-20.	2.3	1
49	Feasibility and Detection of Replay Attack in Networked Constrained Cyber-Physical Systems. , 2019, , .		23
50	A novel Observer-based Architecture for Water Management in Large-Scale (Hazelnut) Orchards. IFAC-PapersOnLine, 2019, 52, 62-69.	0.9	10
51	Extremum Seeking Algorithms based on Non-Commutative Maps. IFAC-PapersOnLine, 2019, 52, 688-693.	0.9	3
52	Constrained Extremum Seeking: a Modified-Barrier Function Approach. IFAC-PapersOnLine, 2019, 52, 694-699.	0.9	5
53	Scalar Reference Governor for Constrained Maneuver and Shape Control of Nonlinear Multibody Aircraft. IFAC-PapersOnLine, 2019, 52, 819-824.	0.9	2
54	Multi-mode Controller for Propellantless Spacecraft Translational Maneuvering Through Orientation Changes Only. IFAC-PapersOnLine, 2019, 52, 825-830.	0.9	0

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55	A Distributed Method for Linear Programming Problems With Box Constraints and Time-Varying Inequalities. , 2019, 3, 404-409.		21
56	A general framework for approximated model stable inversion. Automatica, 2019, 101, 182-189.	5.0	15
57	Explicit Reference Governor for the Constrained Control of Linear Time-Delay Systems. IEEE Transactions on Automatic Control, 2019, 64, 2883-2889.	5.7	10
58	Decentralized progressive shape formation with robot swarms. Autonomous Robots, 2019, 43, 1505-1521.	4.8	28
59	Model-free Learning to Avoid Constraint Violations: An Explicit Reference Governor Approach. , 2019, ,		14
60	The use of robotics devices in knee rehabilitation: a critical review. Muscles, Ligaments and Tendons Journal, 2019, 09, 21.	0.3	5
61	A Model Predictive Control Application for a Constrained Fast Charge of Lithium-ion Batteries. , 2019, ,		2
62	Constrained Control in Three Dimensions via Explicit Reference Governor. Transactions of the Society of Instrument and Control Engineers, 2019, 55, 762-771.	0.2	0
63	On the solvability of the global monotonic tracking for subsets of output components. , 2019, , .		0
64	A distributed command governor based on graph colorability theory. International Journal of Robust and Nonlinear Control, 2018, 28, 3056-3072.	3.7	9
65	Subâ€optimal extremum seeking control for static maps. IET Control Theory and Applications, 2018, 12, 745-752.	2.1	5
66	Explicit reference governor for linear systems. International Journal of Control, 2018, 91, 1415-1430.	1.9	37
67	Constrained Control of Robotic Manipulators Using the Explicit Reference Governor. , 2018, , .		3
68	A Distributed Reference Governor for High-Order LTI Swarm Systems. , 2018, , .		1
69	Attitude Constrained Control on SO(3): An Explicit Reference Governor Approach. , 2018, , .		4
70	A Distributed Swarm Aggregation Algorithm for Bar Shaped Multi-Agent Systems. , 2018, , .		4
71	Tracking MPC with non-convex steady state admissible sets. IFAC-PapersOnLine, 2018, 51, 153-156.	0.9	1

72 Explicit Reference Governor Toolbox (ERGT). , 2018, , .

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73	A Structural Approach to State-to-Output Decoupling. SIAM Journal on Control and Optimization, 2018, 56, 3816-3847.	2.1	4
74	On the Link Between Multi-Coloring Problems for Graphs and Distributed Supervision of Interconnected Systems. , 2018, , .		0
75	Constrained control of free piston engine generator based on implicit reference governor. Science China Information Sciences, 2018, 61, 1.	4.3	12
76	The Explicit Reference Governor: A General Framework for the Closed-Form Control of Constrained Nonlinear Systems. IEEE Control Systems, 2018, 38, 89-107.	0.8	65
77	Constrained Control of UAVs in Geofencing Applications. , 2018, , .		43
78	Nonlinear control of a tethered UAV: The taut cable case. Automatica, 2017, 78, 174-184.	5.0	32
79	Fast Reference Governor for Linear Systems. Journal of Guidance, Control, and Dynamics, 2017, 40, 461-465.	2.8	7
80	Parameter Governors for Coordinated Control of n-Spacecraft Formations. Journal of Guidance, Control, and Dynamics, 2017, 40, 3020-3025.	2.8	6
81	Reference and command governors for systems with constraints: A survey on theory and applications. Automatica, 2017, 75, 306-328.	5.0	278
82	Sub-Optimal Extremum Seeking Control * *This work is supported by the Fonds National de la Recherche Scientifique (FNRS) under Grant ASP 24923120 and under Grant MIS F.4526.17 â€Optimization-free Control of Nonlinear Systems subject to Constraints― IFAC-PapersOnLine, 2017, 50, 7762-7768.	0.9	2
83	Secure Dynamic State Estimation by Decomposing Kalman Filter. IFAC-PapersOnLine, 2017, 50, 7351-7356.	0.9	16
84	Control of Fully Actuated Unmanned Aerial Vehicles with Actuator Saturation * *This research has been funded by the Mandats d'Impulsion Scientific â€Optimization-free Control of Nonlinear Systems subject to Constraints―of the Fonds de la Recherche Scientifique (FNRS), Ref. F452617F IFAC-PapersOnLine, 2017, 50, 12715-12720.	0.9	17
85	A Passivity-Based Distributed Reference Governor for Constrained Robotic Networks * *This work is supported by EM-EASED, FRIA, and JSPS KAK- ENHI Grant Number JP15H04019. The stay of Tam Nguyen in Tokyo Institute of Technology has been supported by the Erasmus Mundus EASED programme (Grant) Tj ETQq1 1	0.78431	4 ³ gBT /Ove
86	Computationally-efficient constrained control of the state-of-charge of a Li-ion battery cell. , 2017, , . Control of the State-of-Charge of a Li-ion Battery Cell via Reference Governor * *This work is		12
87	performed in the framework of the BATWAL project financed by the Walloon region (Belgium).This research has been funded by the Mandats d'Impulsion Scientific "Optimization-free Control of Nonlinear Systems subject to Constraints" of the Fonds de la Recherche Scientifique (FNRS), Ref. F452617F.This research has been funded by Fonds pour la Formation à la Recherche dans l'Industrie et	0.9	7
88	dans l'Agriculture (FRIA) of th. IFAC-PapersOnLine, 2017, 50, 13747-13753. A new method for the row-by-row decoupling problem with pole assignment. , 2016, , .		0
89	A geometric approach to constrained tracking control. , 2016, , .		0

90 A robust explicit reference governor for constrained control of Unmanned Aerial Vehicles. , 2016, , .

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91	An Explicit Reference Governor for the robust constrained control of nonlinear systems. , 2016, , .		10
92	A leader-follower architecture for Load Frequency Control purposes against cyber attacks in power grids - Part II. , 2016, , .		5
93	Secure dynamic state estimation via local estimators. , 2016, , .		30
94	Time Shift Governor for Coordinated Control of Two Spacecraft Formations. IFAC-PapersOnLine, 2016, 49, 296-301.	0.9	6
95	A passivity-based approach for constrained mobile robotic networks. , 2016, , .		3
96	A parallel distributed supervision strategy for multi-agent networked systems. Systems and Control Letters, 2016, 97, 115-124.	2.3	3
97	Control of a UAV and a UGV cooperating to manipulate an object. , 2016, , .		15
98	Explicit Reference Governor for Constrained Nonlinear Systems. IEEE Transactions on Automatic Control, 2016, 61, 1379-1384.	5.7	91
99	Distributed Supervisory Strategies forÂMulti-agent Networked Systems. Studies in Systems, Decision and Control, 2016, , 411-427.	1.0	0
100	A Distributed Explicit Reference Governor for Constrained Control of Multiple UAVsâ^—â^—This work is supported by the FRIA scholarship grant CAT-AVIATOR IFAC-PapersOnLine, 2015, 48, 156-161.	0.9	7
101	Explicit reference governor for continuous time nonlinear systems subject to convex constraints. , 2015, , .		22
102	Control of Euler-Lagrange systems subject to constraints: An Explicit Reference Governor approach. , 2015, , .		5
103	Sufficient conditions for the stability of a class of second order systems. Systems and Control Letters, 2015, 84, 1-6.	2.3	3
104	Clock synchronization protocol for wireless sensor networks with bounded communication delays. Automatica, 2015, 59, 60-72.	5.0	53
105	Piecewise quadratic Lyapunov functions over conical partitions for robust stability analysis. International Journal of Robust and Nonlinear Control, 2015, 25, 2348-2361.	3.7	6
106	Linear matrix inequalities for globally monotonic tracking control. Automatica, 2015, 61, 173-177.	5.0	20
107	Distributed constrained connectivity control for proximity networks based on a receding horizon scheme. , 2015, , .		11
108	Swarm aggregation with a multi-robot system composed of three robotic units: A closed form		0

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109	Nested saturation control of an UAV carrying a suspended load. , 2014, , .		54
110	Nonlinear control of an actuated tethered airfoil. , 2014, , .		6
111	Generalized Traveling Salesman Problem for Carrier-Vehicle Systems. Journal of Guidance, Control, and Dynamics, 2014, 37, 766-774.	2.8	23
112	On the use of IMUs in the PnP problem. , 2014, , .		5
113	Reference and command governors: A tutorial on their theory and automotive applications. , 2014, , .		105
114	Clock Synchronization in Wireless Sensor Network With Selective Convergence Rate for Event Driven Measurement Applications. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 2279-2287.	4.7	33
115	Improved Feed-Forward Command Governor Strategies for Constrained Discrete-Time Linear Systems. IEEE Transactions on Automatic Control, 2014, 59, 216-223.	5.7	13
116	A Distributed Multi-Agent Command Governor Strategy for the Coordination of Networked Interconnected Systems. IEEE Transactions on Automatic Control, 2014, 59, 2099-2112.	5.7	26
117	On infinite-horizon sensor scheduling. Systems and Control Letters, 2014, 67, 65-70.	2.3	31
118	Scalability and Performance Improvement of Distributed Sequential Command Governor Strategies via Graph Colorability Theory. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 9400-9405.	0.4	9
119	Taut Cable Control of a Tethered UAV. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 3190-3195.	0.4	43
120	The Distributed Command Governor Approach in a Nutshell. Intelligent Systems, Control and Automation: Science and Engineering, 2014, , 259-274.	0.5	5
121	Clock synchronization for wireless sensor network with communication delay. , 2013, , .		21
122	P3P and P2P problems with known camera and object vertical directions. , 2013, , .		3
123	Wireless Sensor Networks Clock Synchronization with Selective Convergence Rate. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 146-151.	0.4	5
124	LQG control with Markovian packet loss. , 2013, , .		36
125	On the use of the inclinometers in the PnP problem. , 2013, , .		2

Piecewise quadratic functions for finite-time stability analysis. , 2012, , .

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127	A parallel distributed coordination-by-constraint strategy for multi-agent networked systems. , 2012, ,		7
128	Infinite-horizon sensor scheduling for estimation over lossy networks. , 2012, , .		7
129	Localized fine accuracy synchronization in Wireless Sensor Network based on consensus approach. , 2012, , .		8
130	Stochastic sensor scheduling in Wireless Sensor Networks with general graph topology. , 2012, , .		1
131	A travelling salesman problem for a class of heterogeneous multi-vehicle systems. , 2012, , .		5
132	A Distributed Parallel Command Governor Strategy for the Coordination of Multi-agent Networked Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 478-483.	0.4	10
133	A fast ellipsoidal MPC scheme for discrete-time polytopic linear parameter varying systems. Automatica, 2012, 48, 2620-2626.	5.0	37
134	LQG Control for MIMO Systems Over Multiple Erasure Channels With Perfect Acknowledgment. IEEE Transactions on Automatic Control, 2012, 57, 450-456.	5.7	122
135	Distributed Command Governor strategies for constrained coordination of multi-agent networked systems. , 2012, , .		19
136	Robust Stability of linear uncertain systems through Piecewise Quadratic Lyapunov Functions defined over conical partitions. , 2012, , .		6
137	Thermal models characterization for reliable temperature capping and performance optimization in Multiprocessor Systems on Chip. , 2012, , .		6
138	Cooperative pose stabilization of an aerial vehicle through physical interaction with a team of ground robots. , 2012, , .		8
139	Receding Horizon Control Strategies for Constrained LPV Systems Based on a Class of Nonlinearly Parameterized Lyapunov Functions. IEEE Transactions on Automatic Control, 2012, 57, 2354-2360.	5.7	30
140	Stochastic Sensor Scheduling for Energy Constrained Estimation in Multi-Hop Wireless Sensor Networks. IEEE Transactions on Automatic Control, 2011, 56, 2489-2495.	5.7	59
141	Distributed Reference Management Strategies for Networked Water Distribution Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 8951-8956.	0.4	5
142	Sensorless supervision of linear dynamical systems: The Feed-Forward Command Governor approach. Automatica, 2011, 47, 1294-1303.	5.0	27
143	Distributed coordination-by-constraint strategies for multi-agent networked systems. , 2011, , .		9
144	A liveliness analysis of a distributed constrained coordination strategy for multi-agent linear systems. , 2011, , .		12

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145	Distributed coordination-by-constraint strategies in networked multi-area power systems. , 2011, , .		5
146	Traveling Salesman Problem for a Class of Carrier-Vehicle Systems. Journal of Guidance, Control, and Dynamics, 2011, 34, 1272-1276.	2.8	24
147	Improved Feed-Forward Command Governor strategies for discrete-time time-invariant linear systems. , 2011, , .		2
148	Distributed Coordination Strategies for Interconnected Multi-Agent Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 403-408.	0.4	7
149	A FeedForward Command Governor Strategy for Constrained Linear Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 1023-1028.	0.4	1
150	Planning Algorithms for a Class of Heterogeneous Multi-Vehicle Systems IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 969-974.	0.4	3
151	LQG control over lossy TCP-like networks with probabilistic packet acknowledgements. International Journal of Systems, Control and Communications, 2010, 2, 55.	0.3	41
152	Switching control laws in the presence of measurement noise. Systems and Control Letters, 2010, 59, 353-364.	2.3	7
153	Faultâ€ŧolerant adaptive control allocation schemes for overactuated systems. International Journal of Robust and Nonlinear Control, 2010, 20, 1958-1980.	3.7	101
154	False data injection attacks against state estimation in wireless sensor networks. , 2010, , .		284
155	A hierarchical approach to energy management in data centers. , 2010, , .		14
156	Sensor scheduling for energy constrained estimation in multi-hop Wireless Sensor Networks. , 2010, ,		3
157	Cooperative mission planning for a class of carrier-vehicle systems. , 2010, , .		10
158	An off-line MPC scheme for discrete-time linear parameter varying systems. , 2009, , .		4
159	Discontinuous control systems in the presence of measurement noise. , 2009, , .		0
160	Setâ€points reconfiguration in networked multiâ€area electrical power systems. International Journal of Adaptive Control and Signal Processing, 2009, 23, 808-832.	4.1	8
161	Dilated model predictive control strategy for linear parameter-varying systems with a time-varying terminal set. IET Control Theory and Applications, 2009, 3, 110-120.	2.1	13
162	Distributed Coordination-by-Constraint Strategies for Networked Control Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 144-149.	0.4	6

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163	An Off-Line MPC Strategy for Nonlinear Systems Based on SOS Programming. Lecture Notes in Control and Information Sciences, 2009, , 491-499.	1.0	9
164	On the Effect of Packet Acknowledgment on the Stability and Performance of Networked Control Systems. Understanding Complex Systems, 2009, , 191-206.	0.6	4
165	Enhancing the actuator fault tolerance in autonomous overactuated vehicles via adaptive control allocation. , 2008, , .		9
166	Cooperative path planning for a class of carrier-vehicle systems , 2008, , .		7
167	LQG control over lossy TCP-like networks with probabilistic packet acknowledgements. , 2008, , .		22
168	Adaptive fault tolerant actuator allocation for overactuated plants. Proceedings of the American Control Conference, 2007, , .	0.0	19
169	LQG control for distributed systems over TCP-like erasure channels. , 2007, , .		30
170	New stabilizability conditions for discrete-time linear parameter varying systems. , 2007, , .		7
171	A dilated MPC control strategy for LPV linear systems. , 2007, , .		1

An improved predictive control strategy for polytopic LPV linear systems. , 2006, , .