Alexandra Grancharova

List of Publications by Year in descending order

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1039880 677027 45 562 9 22 citations g-index h-index papers 49 49 49 481 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Explicit Nonlinear Model Predictive Control. Lecture Notes in Control and Information Sciences, 2012, , .	0.6	75
2	Explicit stochastic predictive control of combustion plants based on Gaussian process models. Automatica, 2008, 44, 1621-1631.	3.0	72
3	Evolving Gaussian process models for prediction of ozone concentration in the air. Simulation Modelling Practice and Theory, 2013, 33, 68-80.	2.2	47
4	UAVs Trajectory Planning by Distributed MPC under Radio Communication Path Loss Constraints. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 79, 115-134.	2.0	46
5	Computation, approximation and stability of explicit feedback min–max nonlinear model predictive control. Automatica, 2009, 45, 1134-1143.	3.0	44
6	Design and Comparison of Explicit Model Predictive Controllers for an Electropneumatic Clutch Actuator Using On/Off Valves. IEEE/ASME Transactions on Mechatronics, 2011, 16, 665-673.	3.7	39
7	Computational Aspects of Approximate Explicit Nonlinear Model Predictive Control., 2007, , 181-192.		37
8	Explicit model predictive control of gas–liquid separation plant via orthogonal search tree partitioning. Computers and Chemical Engineering, 2004, 28, 2481-2491.	2.0	23
9	Explicit output-feedback nonlinear predictive control based on black-box models. Engineering Applications of Artificial Intelligence, 2011, 24, 388-397.	4.3	22
10	Explicit stochastic Nonlinear Predictive Control based on Gaussian process models., 2007,,.		15
11	Explicit Approximate Model Predictive Control of Constrained Nonlinear Systems with Quantized Input. Lecture Notes in Control and Information Sciences, 2009, , 371-380.	0.6	15
12	Explicit Model Predictive Control of an electropneumatic clutch actuator using on/off valves and pulse-width modulation. , 2009, , .		11
13	Explicit Approximate Approach to Feedback Min-Max Model Predictive Control of Constrained Nonlinear Systems., 2006,,.		9
14	Distributed MPC-Based Path Planning for UAVs under Radio Communication Path Loss Constraints. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 254-259.	0.4	9
15	The concept for Gaussian process model based system identification toolbox. , 2007, , .		8
16	Distributed Quasi-Nonlinear Model Predictive Control by Dual Decomposition. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 1429-1434.	0.4	8
17	Multi-parametric Programming. Lecture Notes in Control and Information Sciences, 2012, , 1-37.	0.6	7
18	Approaches to explicit Nonlinear Model Predictive Control with reduced partition complexity. , 2009, , .		7

#	Article	IF	CITATIONS
19	EXPLICIT MIN-MAX MODEL PREDICTIVE CONTROL OF CONSTRAINED NONLINEAR SYSTEMS WITH MODEL UNCERTAINTY. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 1019-1024.	0.4	6
20	Rotary-Wing UAVs Trajectory Planning by Distributed Linear MPC with Reconfigurable Communication Network Topologies. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 198-205.	0.4	6
21	A computational approach to explicit feedback stochastic Nonlinear Model Predictive Control. , 2010, , .		5
22	Distributed Path Planning for a UAV Communication Chain by Dual Decomposition. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 43-48.	0.4	5
23	Nonlinear Model Predictive Control. Lecture Notes in Control and Information Sciences, 2012, , 39-69.	0.6	5
24	Application of Gaussian Processes to the Modelling and Control in Process Engineering. Studies in Computational Intelligence, 2014, , 155-190.	0.7	4
25	Design of Explicit Model Predictive Controllers Based on Orthogonal Partition of the Parameter Space: Methods and A Software Tool. IFAC-PapersOnLine, 2015, 48, 105-110.	0.5	4
26	Distributed Nonlinear Model Predictive Control by Sequential Linearization and Accelerated Gradient Method. IFAC-PapersOnLine, 2016, 49, 597-602.	0.5	4
27	Distributed Robust Model Predictive Control of Interconnected Polytopic Systems. Lecture Notes in Control and Information Sciences, 2015, , 73-91.	0.6	4
28	An Approach to Distributed Robust Model Predictive Control of Discrete-Time Polytopic Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 2576-2581.	0.4	3
29	Distributed Quasi-Nonlinear Model Predictive Control with Contractive Constraint. IFAC-PapersOnLine, 2018, 51, 41-47.	0.5	3
30	Reduced Dimension Approach to Approximate Explicit Model Predictive Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 531-536.	0.4	2
31	Dual-mode Explicit Output-feedback Predictive Control Based on Neural Network Models *. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 545-550.	0.4	2
32	Explicit MPC of Constrained Nonlinear Systems with Quantized Inputs. Lecture Notes in Control and Information Sciences, 2012, , 111-125.	0.6	2
33	An intelligent model predictive control-based strategy for plantwide optimization of degrading plants. , 2016, , .		2
34	Low Complexity Distributed Model Predictive Control by Using Contractive Sets. IFAC-PapersOnLine, 2017, 50, 13164-13169.	0.5	2
35	Contractive Model Predictive Control for Insulin Delivery for Type 1 Diabetics. , 2019, , .		2
36	Suboptimality Analysis of Distributed Quasi-Nonlinear Model Predictive Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 522-528.	0.4	1

#	Article	IF	CITATIONS
37	Explicit NMPC Based on Neural Network Models. Lecture Notes in Control and Information Sciences, 2012, , 187-207.	0.6	1
38	Explicit interpolation-based nonlinear model predictive control with a convex approximation of the feasible set. , $2014, , .$		1
39	Formation Reconfiguration Using Model Predictive Control Techniques for Multi-agent Dynamical Systems. Lecture Notes in Control and Information Sciences, 2015, , 183-205.	0.6	1
40	Explicit Nonlinear Model Predictive Control of a Two-Chamber Microbial Fuel Cell., 2020,,.		1
41	General strategy for decision support in integrated process synthesis, design and control. Computer Aided Chemical Engineering, 2001, 9, 1003-1008.	0.3	O
42	Explicit Stochastic NMPC. Lecture Notes in Control and Information Sciences, 2012, , 157-186.	0.6	0
43	Explicit NMPC Using mp-QP Approximations of mp-NLP. Lecture Notes in Control and Information Sciences, 2012, , 71-85.	0.6	O
44	Semi-explicit Distributed NMPC. Lecture Notes in Control and Information Sciences, 2012, , 209-231.	0.6	0
45	Intelligent Two-Level Optimization and Model Predictive Control of Degrading Plants. Studies in Computational Intelligence, 2018, , 117-134.	0.7	O