

JÃ¼rgen Pannek

List of Publications by Year in descending order

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78
papers

1,656
citations

623734

14
h-index

315739

38
g-index

82
all docs

82
docs citations

82
times ranked

1336
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear Model Predictive Control. Communications and Control Engineering, 2011, , .	1.6	578
2	Nonlinear Model Predictive Control. Communications and Control Engineering, 2017, , .	1.6	234
3	Security framework for industrial collaborative robotic cyber-physical systems. Computers in Industry, 2018, 97, 132-145.	9.9	106
4	Analysis of Unconstrained Nonlinear MPC Schemes with Time Varying Control Horizon. SIAM Journal on Control and Optimization, 2010, 48, 4938-4962.	2.1	103
5	Nonlinear Model Predictive Control. Communications and Control Engineering, 2011, , 43-66.	1.6	74
6	A methodology to develop collaborative robotic cyber physical systems for production environments. Logistics Research, 2016, 9, 1.	1.6	43
7	Road Accidents Detection, Data Collection and Data Analysis Using V2X Communication and Edge/Cloud Computing. Electronics (Switzerland), 2019, 8, 896.	3.1	40
8	Practical NMPC suboptimality estimates along trajectories. Systems and Control Letters, 2009, 58, 161-168.	2.3	29
9	Hybrid modelling approach for the scheduling and control of integrated production and logistic processes along export supply chains. IFAC-PapersOnLine, 2015, 48, 1521-1526.	0.9	24
10	A prediction based control scheme for networked systems with delays and packet dropouts. , 2009, , .		23
11	A networked unconstrained nonlinear MPC scheme. , 2009, , .		20
12	Experimental validation of an accident detection and management application in vehicular environment. Computers and Electrical Engineering, 2018, 71, 137-150.	4.8	19
13	Prototype of automatic accident detection and management in vehicular environment using VANET and IoT. , 2017, , .		17
14	Combining MPC and integer operators for capacity adjustment in job-shop systems with RMTs. International Journal of Production Research, 2019, 57, 2498-2513.	7.5	17
15	Interaction of open and closed loop control in MPC. Automatica, 2017, 82, 243-250.	5.0	16
16	Analysis of unconstrained NMPC schemes with incomplete optimization. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 238-243.	0.4	15
17	Robustness of Prediction Based Delay Compensation for Nonlinear Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 203-208.	0.4	15
18	Development of Operator Theory in the Capacity Adjustment of Job Shop Manufacturing Systems. Applied Sciences (Switzerland), 2019, 9, 2249.	2.5	13

#	ARTICLE	IF	CITATIONS
19	Understanding vulnerabilities in cyber physical production systems. International Journal of Computer Integrated Manufacturing, 2022, 35, 569-582.	4.6	13
20	Robust Solution Approach for the Dynamic and Stochastic Vehicle Routing Problem. Journal of Advanced Transportation, 2018, 2018, 1-11.	1.7	11
21	Parallelizing a state exchange strategy for noncooperative distributed NMPC. Systems and Control Letters, 2013, 62, 29-36.	2.3	10
22	Modeling and random path-based direct encoding for a closed loop supply chain model with flexible delivery paths. IFAC-PapersOnLine, 2016, 49, 78-83.	0.9	10
23	Occupancy grid based distributed MPC for mobile robots. , 2017, , .		10
24	A simulation-based solution approach for the robust capacitated vehicle routing problem with uncertain demands. Transportation Letters, 2021, 13, 664-673.	3.1	10
25	Methodology for Development of Logistics Information and Safety System Using Vehicular Adhoc Networks. Lecture Notes in Logistics, 2017, , 185-195.	0.8	9
26	An Emergency Response System: Construction, Validation, and Experiments for Disaster Management in a Vehicular Environment. Sensors, 2019, 19, 1150.	3.8	9
27	Towards dynamic contract extension in supplier development. Logistics Research, 2016, 9, 1.	1.6	8
28	Modeling and predictive capacity adjustment for job shop systems with RMTs. , 2017, , .		8
29	Differential communication with distributed MPC based on occupancy grid. Information Sciences, 2018, 453, 426-441.	6.9	8
30	Distributed economic model predictive control for cooperative supply chain management using customer forecast information. IFAC Journal of Systems and Control, 2021, 15, 100125.	1.7	8
31	Bi-objective optimization model for the heterogeneous dynamic dial-a-ride problem with no rejects. Optimization Letters, 2022, 16, 355-374.	1.6	8
32	Safety Requirements in Collaborative Humanâ€“Robot Cyber-Physical System. Lecture Notes in Logistics, 2017, , 41-51.	0.8	8
33	Capacity adjustment of job shop manufacturing systems with RMTs. , 2016, , .		7
34	A memetic algorithm with extended random path encoding for a closed-loop supply chain model with flexible delivery. Logistics Research, 2016, 9, 1.	1.6	7
35	VANET Security Analysis on the Basis of Attacks in Authentication. Lecture Notes in Logistics, 2017, , 491-502.	0.8	7
36	Suitability of IEEE 802.11ac/n/p for Bandwidth Hungry and Infotainment Applications for Cities. Lecture Notes in Networks and Systems, 2018, , 903-921.	0.7	7

#	ARTICLE	IF	CITATIONS
37	Redesign Techniques for Nonlinear Sampled-data Systems (Entwurfstechniken f¼r nichtlineare) Tj ETQq1 1 0.784314 rgBT /Overloc	0.8	6
38	MPC: implications of a growth condition on exponentially controllable systems *. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 385-390.	0.4	6
39	Network structures and decentralized control in logistics: topology, interfaces, and dynamics. International Journal of Advanced Logistics, 2015, 4, 1-8.	0.2	6
40	Frequency Based Model Predictive Control of a Manufacturing System. IFAC-PapersOnLine, 2018, 51, 801-806.	0.9	6
41	Numeric Evaluation of Game-Theoretic Collaboration Modes in Supplier Development. Applied Sciences (Switzerland), 2019, 9, 4331.	2.5	6
42	A multi-product job shop scenario utilising Model Predictive Control. Expert Systems With Applications, 2020, 162, 113734.	7.6	6
43	Novel Routing Framework for VANET Considering Challenges for Safety Application in City Logistics. Advances in Intelligent Systems and Computing, 2017, , 53-67.	0.6	5
44	Certifiable Software Architecture for Human Robot Collaboration in Industrial Production Environments * *This research is part of the joint project InSA (www.insa-projekt.de) funded by the Federal Ministry of Economy and Energy in the context of the initiative Autonomik Industry 4.0.. IFAC-PapersOnLine, 2017, 50, 1983-1990.	0.9	4
45	An emergency alert system for elderly/special people using VANET and WBAN. , 2017, , .		4
46	Capacity Control in Disturbed and Time-Delayed Job Shop Manufacturing Systems with RMTs äž äžThis project is supported by the European Commission in the framework of Erasmus Mundus and within the projects Fusion and gLINK.. IFAC-PapersOnLine, 2018, 51, 807-812.	0.9	4
47	The Effect of Various Parameters of Solution Methodology on a Flexible Integrated Supply Chain Model. Mathematical Problems in Engineering, 2018, 2018, 1-14.	1.1	4
48	Evaluation of Control Approaches for Capacity Adjustment in Job Shop Systems. IFAC-PapersOnLine, 2019, 52, 1966-1971.	0.9	4
49	Ranking Parameters of a Memetic Algorithm for a Flexible Integrated Logistics Network. Lecture Notes in Logistics, 2018, , 76-85.	0.8	4
50	Synergies of Advanced Technologies and Role of VANET in Logistics and Transportation. International Journal of Advanced Computer Science and Applications, 2016, 7, .	0.7	4
51	A Comparison between Memetic Algorithm and Genetic Algorithm for an Integrated Logistics Network with Flexible Delivery Path. SN Operations Research Forum, 2021, 2, 1.	1.0	4
52	Predictive Control Algorithms: Stability despite Shortened Optimization Horizons. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 274-279.	0.4	3
53	On Contractual Periods in Supplier Development. IFAC-PapersOnLine, 2016, 49, 60-65.	0.9	3
54	Analysis of unconstrained nonlinear MPC schemes with time varying control horizon. , 2012, , .		2

#	ARTICLE	IF	CITATIONS
55	Ensuring stability in networked systems with nonlinear MPC for continuous time systems. , 2012, , .		2
56	Robust Stability and Performance Bounds for MPC with Abstract Updates. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 311-316.	0.4	2
57	Supply Chain Optimization via Distributed Model Predictive Control. Proceedings in Applied Mathematics and Mechanics, 2014, 14, 905-906.	0.2	2
58	Connection between Quantisation and Bandwidth Requirements of Distributed Model Predictive Control. IFAC-PapersOnLine, 2017, 50, 10329-10334.	0.9	2
59	On Exploitation of Supply Chain Properties by Sequential Distributed MPC * *P. KÄhler, M. MÄyler and F. AllgÄwer thank the German Research Foundation (DFG) for support of this work within grant AL 316/11-1 and within the Cluster of Excellence in Simulation Technology (EXC 310/2) at the University of Stuttgart. M. MÄyler and J. Pannek are also supported by the DFG, grant WO 2056/1. IFAC-PapersOnLine, 2017, 50, 7947-7952.	0.9	2
60	Novel message dissemination mechanism and mathematical model for safety applications in VANET. , 2017, , .		2
61	Complementing Decision Support and Forecasting Risk in Supply Chain with Unstructured Data. IFAC-PapersOnLine, 2019, 52, 1721-1726.	0.9	2
62	Taguchi Analysis for Improving Optimization of Integrated Forward/Reverse Logistics. Journal of the Operations Research Society of China, 2023, 11, 529-552.	1.4	2
63	Relaxed Collision Constraints Based on Interval Superposition Principle in a DMPC Scheme. , 2018, , .		1
64	Application of reconfigurable machine tools in the capacity control of job shop systems. International Journal of Agile Systems and Management, 2018, 11, 206.	0.3	1
65	Dynamic-priority-based DMPC with an occupancy grid for mobile systems. International Journal of Control, 2020, , 1-15.	1.9	1
66	Analytical Aspects of Distributed MPC Based on an Occupancy Grid for Mobile Robots. Applied Sciences (Switzerland), 2020, 10, 1007.	2.5	1
67	A Numerical Study on the Effects of Trust in Supplier Development. Processes, 2020, 8, 300.	2.8	1
68	Operator-Based Capacity Control of Job Shop Manufacturing Systems with RMTs. Lecture Notes in Logistics, 2018, , 264-272.	0.8	1
69	Stability and Suboptimality Without Stabilizing Terminal Conditions. Communications and Control Engineering, 2017, , 121-176.	1.6	1
70	Variants and Extensions. Communications and Control Engineering, 2017, , 297-342.	1.6	1
71	Variants and Extensions. Communications and Control Engineering, 2011, , 165-210.	1.6	0
72	Novel Data Link Layer Encoding Scheme for Multi-hop Wireless Mesh Network. Procedia Computer Science, 2015, 52, 665-669.	2.0	0

#	ARTICLE	IF	CITATIONS
73	Experimental Speedup and Stability Validation for Multi-Step MPC * *M.W. Mehrez, K. Worthmann, and J. Pannek are supported by the Deutsche Forschungsgemeinschaft, Grant WO 2056/1-1 and WO 2056/4-1. M.W. Mehrez, G.K.I. Mann, and R.G. Gosine are supported by Natural Sciences and Engineering Research Council of Canada (NSERC), the Research and Development Corporation (RDC), C-CORE J.I. Clark Chair, and Memorial University of Newfoundland. IFAC PapersOnline, 2017, 50, 8698-8703.	0.9	0
74	Impact of Quantisation on Consistency of DMPC in Street Traffic with Dynamic Priority Rules. Proceedings in Applied Mathematics and Mechanics, 2017, 17, 819-820.	0.2	0
75	Performance of Sensitivity Based NMPC Updates in Automotive Applications. Mathematics in Industry, 2014, , 265-270.	0.3	0
76	Distributed NMPC. Communications and Control Engineering, 2017, , 259-295.	1.6	0
77	Reorientation of Routing From IP to Link Layer for Path Selection in Multi-Hop Networks. Advances in Mechatronics and Mechanical Engineering, 2020, , 227-252.	1.0	0
78	Simulation-Based Sensitivity Analysis of Dynamic Contract Extension Elements in Supplier Development. Lecture Notes in Logistics, 2020, , 341-350.	0.8	0