

JÃ¼rgen Pannek

List of Publications by Year in descending order

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78
papers

1,656
citations

623734

14
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315739

38
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82
all docs

82
docs citations

82
times ranked

1336
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Bi-objective optimization model for the heterogeneous dynamic dial-a-ride problem with no rejects. Optimization Letters, 2022, 16, 355-374.	1.6	8
3	Understanding vulnerabilities in cyber physical production systems. International Journal of Computer Integrated Manufacturing, 2022, 35, 569-582.	4.6	13
4	A simulation-based solution approach for the robust capacitated vehicle routing problem with uncertain demands. Transportation Letters, 2021, 13, 664-673.	3.1	10
5	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
6	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
7	Dynamic-priority-based DMPC with an occupancy grid for mobile systems. International Journal of Control, 2020, , 1-15.	1.9	1
8	A multi-product job shop scenario utilising Model Predictive Control. Expert Systems With Applications, 2020, 162, 113734.	7.6	6
9	Analytical Aspects of Distributed MPC Based on an Occupancy Grid for Mobile Robots. Applied Sciences (Switzerland), 2020, 10, 1007.	2.5	1
10	A Numerical Study on the Effects of Trust in Supplier Development. Processes, 2020, 8, 300.	2.8	1
11	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
12	Simulation-Based Sensitivity Analysis of Dynamic Contract Extension Elements in Supplier Development. Lecture Notes in Logistics, 2020, , 341-350.	0.8	0
13	Development of Operator Theory in the Capacity Adjustment of Job Shop Manufacturing Systems. Applied Sciences (Switzerland), 2019, 9, 2249.	2.5	13
14	Road Accidents Detection, Data Collection and Data Analysis Using V2X Communication and Edge/Cloud Computing. Electronics (Switzerland), 2019, 8, 896.	3.1	40
15	An Emergency Response System: Construction, Validation, and Experiments for Disaster Management in a Vehicular Environment. Sensors, 2019, 19, 1150.	3.8	9
16	Numeric Evaluation of Game-Theoretic Collaboration Modes in Supplier Development. Applied Sciences (Switzerland), 2019, 9, 4331.	2.5	6
17	Complementing Decision Support and Forecasting Risk in Supply Chain with Unstructured Data. IFAC-PapersOnLine, 2019, 52, 1721-1726.	0.9	2
18	Evaluation of Control Approaches for Capacity Adjustment in Job Shop Systems. IFAC-PapersOnLine, 2019, 52, 1966-1971.	0.9	4

#	ARTICLE	IF	CITATIONS
19	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
20	Security framework for industrial collaborative robotic cyber-physical systems. Computers in Industry, 2018, 97, 132-145.	9.9	106
21	Differential communication with distributed MPC based on occupancy grid. Information Sciences, 2018, 453, 426-441.	6.9	8
22	Relaxed Collision Constraints Based on Interval Superposition Principle in a DMPC Scheme. , 2018, , .		1
23	Capacity Control in Disturbed and Time-Delayed Job Shop Manufacturing Systems with RMTs âŽžâŽžThis 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
24	Frequency Based Model Predictive Control of a Manufacturing System. IFAC-PapersOnLine, 2018, 51, 801-806.	0.9	6
25	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
26	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
27	Robust Solution Approach for the Dynamic and Stochastic Vehicle Routing Problem. Journal of Advanced Transportation, 2018, 2018, 1-11.	1.7	11
28	Experimental validation of an accident detection and management application in vehicular environment. Computers and Electrical Engineering, 2018, 71, 137-150.	4.8	19
29	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
30	Ranking Parameters of a Memetic Algorithm for a Flexible Integrated Logistics Network. Lecture Notes in Logistics, 2018, , 76-85.	0.8	4
31	Operator-Based Capacity Control of Job Shop Manufacturing Systems with RMTs. Lecture Notes in Logistics, 2018, , 264-272.	0.8	1
32	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
33	Interaction of open and closed loop control in MPC. Automatica, 2017, 82, 243-250.	5.0	16
34	Modeling and predictive capacity adjustment for job shop systems with RMTs. , 2017, , .		8
35	Nonlinear Model Predictive Control. Communications and Control Engineering, 2017, , .	1.6	234
36	Methodology for Development of Logistics Information and Safety System Using Vehicular Adhoc Networks. Lecture Notes in Logistics, 2017, , 185-195.	0.8	9

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37	VANET Security Analysis on the Basis of Attacks in Authentication. Lecture Notes in Logistics, 2017, , 491-502.	0.8	7
38	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
39	An emergency alert system for elderly/special people using VANET and WBAN. , 2017, , .		4
40	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
41	Connection between Quantisation and Bandwidth Requirements of Distributed Model Predictive Control. IFAC-PapersOnLine, 2017, 50, 10329-10334.	0.9	2
42	On Exploitation of Supply Chain Properties by Sequential Distributed MPC * *P. Käppler, M. Müller and F. Allgöwer 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. Müller and J. Pannek are also supported by the DFG, grant WO 2056/1. IFAC-PapersOnLine, 2017, 50, 7947-7952.	0.9	2
43	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
44	Novel message dissemination mechanism and mathematical model for safety applications in VANET. , 2017, , .		2
45	Occupancy grid based distributed MPC for mobile robots. , 2017, , .		10
46	Prototype of automatic accident detection and management in vehicular environment using VANET and IoT. , 2017, , .		17
47	Safety Requirements in Collaborative Human-Robot Cyber-Physical System. Lecture Notes in Logistics, 2017, , 41-51.	0.8	8
48	Distributed NMPC. Communications and Control Engineering, 2017, , 259-295.	1.6	0
49	Stability and Suboptimality Without Stabilizing Terminal Conditions. Communications and Control Engineering, 2017, , 121-176.	1.6	1
50	Variants and Extensions. Communications and Control Engineering, 2017, , 297-342.	1.6	1
51	Capacity adjustment of job shop manufacturing systems with RMTs. , 2016, , .		7
52	On Contractual Periods in Supplier Development. IFAC-PapersOnLine, 2016, 49, 60-65.	0.9	3
53	Towards dynamic contract extension in supplier development. Logistics Research, 2016, 9, 1.	1.6	8
54	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

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55	A methodology to develop collaborative robotic cyber physical systems for production environments. Logistics Research, 2016, 9, 1.	1.6	43
56	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
57	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
58	Novel Data Link Layer Encoding Scheme for Multi-hop Wireless Mesh Network. Procedia Computer Science, 2015, 52, 665-669.	2.0	0
59	Network structures and decentralized control in logistics: topology, interfaces, and dynamics. International Journal of Advanced Logistics, 2015, 4, 1-8.	0.2	6
60	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
61	Supply Chain Optimization via Distributed Model Predictive Control. Proceedings in Applied Mathematics and Mechanics, 2014, 14, 905-906.	0.2	2
62	Performance of Sensitivity Based NMPC Updates in Automotive Applications. Mathematics in Industry, 2014, , 265-270.	0.3	0
63	Parallelizing a state exchange strategy for noncooperative distributed NMPC. Systems and Control Letters, 2013, 62, 29-36.	2.3	10
64	Analysis of unconstrained nonlinear MPC schemes with time varying control horizon. , 2012, , .		2
65	Ensuring stability in networked systems with nonlinear MPC for continuous time systems. , 2012, , .		2
66	Predictive Control Algorithms: Stability despite Shortened Optimization Horizons. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 274-279.	0.4	3
67	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
68	Variants and Extensions. Communications and Control Engineering, 2011, , 165-210.	1.6	0
69	Nonlinear Model Predictive Control. Communications and Control Engineering, 2011, , 43-66.	1.6	74
70	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
71	Nonlinear Model Predictive Control. Communications and Control Engineering, 2011, , .	1.6	578
72	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

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73	Analysis of unconstrained NMPC schemes with incomplete optimization. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 238-243.	0.4	15
74	Analysis of Unconstrained Nonlinear MPC Schemes with Time Varying Control Horizon. SIAM Journal on Control and Optimization, 2010, 48, 4938-4962.	2.1	103
75	A networked unconstrained nonlinear MPC scheme. , 2009, , .		20
76	Practical NMPC suboptimality estimates along trajectories. Systems and Control Letters, 2009, 58, 161-168.	2.3	29
77	A prediction based control scheme for networked systems with delays and packet dropouts. , 2009, , .		23
78	Redesign Techniques for Nonlinear Sampled-data Systems (Entwurfstechniken für nichtlineare) Tj ETQq0 0 0 rgBTj/Overlock 10 Tf 50 5	0.8	8