Michael LÃ¼tjen

List of Publications by Year
in descending order

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44 papers	523 citations	840585 11 h-index	677027 22 g-index
47 all docs	47 docs citations	47 times ranked	503 citing authors

#	Article	IF	Citations
1	Anomaly detection with convolutional neural networks for industrial surface inspection. Procedia CIRP, 2019, 79, 484-489.	1.0	89
2	Reducing food losses and carbon emission by using autonomous control â€“ A simulation study of the intelligent container. International Journal of Production Economics, 2015, 164, 400-408.	5.1	82
3	A survey on retail sales forecasting and prediction in fashion markets. Systems Science and Control Engineering, 2015, 3, 154-161.	1.8	59
4	Quality driven distribution of intelligent containers in cold chain logistics networks. Production Engineering, 2013, 7, 291-297.	1.1	34
5	Digital Twins: A Maturity Model for Their Classification and Evaluation. IEEE Access, 2022, 10, 69605-69635.	2.6	29
6	Robust Production Planning in Fashion Apparel Industry under Demand Uncertainty via Conditional Value at Risk. Mathematical Problems in Engineering, 2014, 2014, 1-10.	0.6	27
7	Automatic Optical Surface Inspection of Wind Turbine Rotor Blades using Convolutional Neural Networks. Procedia CIRP, 2019, 81, 1166-1170.	1.0	18
8	Simulation-based Analysis of the Interaction of a Physical and a Digital Twin in a Cyber-Physical Production System. IFAC-PapersOnLine, 2019, 52, 1331-1336.	0.5	17
9	Text Mining for Supply Chain Risk Management in the Apparel Industry. Applied Sciences (Switzerland), 2021, 11, 2323.	1.3	16
10	Indoor Positioning in Car Parks by using Wi-Fi Round-Trip-Time to support Finished Vehicle Logistics on Port Terminals. IFAC-PapersOnLine, 2019, 52, 857-862.	0.5	14
11	Simulated-based methodology for the interface configuration of cyber-physical production systems. International Journal of Production Research, 2021, 59, 5388-5403.	4.9	14
12	GRAMOSA framework for graphical modelling and simulation-based analysis of complex production processes. International Journal of Advanced Manufacturing Technology, 2015, 81, 171-181.	1.5	13
13	A framework for the quality-oriented design of micro manufacturing process chains. Journal of Manufacturing Technology Management, 2014, 25, 1028-1048.	3.3	12
14	A Review on the Planning Problem for the Installation of Offshore Wind Farms. IFAC-PapersOnLine, 2019, 52, 1337-1342.	0.5	10
15	Local characterisation of variances for the planning and configuration of process chains in micro manufacturing. Journal of Manufacturing Systems, 2017, 43, 79-87.	7.6	8
16	Model-driven Logistics Engineering â€“ Challenges of Model and Object Transformation. Procedia Technology, 2014, 15, 303-312.	1.1	7
17	Determination of the Optimal State of Dough Fermentation in Bread Production by Using Optical Sensors and Deep Learning. Applied Sciences (Switzerland), 2019, 9, 4266.	1.3	7
18	Real-time Fault Detection for Advanced Maintenance of Sustainable Technical Systems. Procedia CIRP, 2016, 41, 295-300.	1.0	6

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19	Wireless Pick-by-Light: Usability of LPWAN to Achieve a Flexible Warehouse Logistics Infrastructure. Lecture Notes in Logistics, 2018, , 273-283.	0.6	6
20	Evaluation of Loading Bay Restrictions for the Installation of Offshore Wind Farms Using a Combination of Mixed-Integer Linear Programming and Model Predictive Control. Applied Sciences (Switzerland), 2019, 9, 5030.	1.3	6
21	Forecasting of Seasonal Apparel Products. Lecture Notes in Logistics, 2016, , 633-642.	0.6	5
22	Application of Cause-Effect-Networks for the process planning in laser rod end melting. MATEC Web of Conferences, 2018, 190, 15005.	0.1	5
23	Investigation of icing causes on wind turbine rotor blades using machine learning models, minimalistic input data and a full-factorial design. Procedia Manufacturing, 2020, 52, 168-173.	1.9	4
24	Integrated simulation method for investment decisions of micro production systems. Microsystem Technologies, 2008, 14, 2001-2005.	1.2	3
25	Towards 100% In-situ 2D/3D Quality Inspection of Metallic Micro Components Using Plenoptic Cameras. Procedia CIRP, 2014, 17, 847-852.	1.0	3
26	Application of Stochastic Regression for the Configuration of Microrotary Swaging Processes. Mathematical Problems in Engineering, 2014, 2014, 1-12.	0.6	3
27	Modeling, Planning, and Control of Complex Logistic Processes. Mathematical Problems in Engineering, 2015, 2015, 1-2.	0.6	3
28	Enhancing Expert Knowledge Based Cause-Effect Networks Using Continuous Production Data. Procedia Manufacturing, 2018, 24, 128-134.	1.9	3
29	APPLICATION OF ONLINE LEARNING FOR THE DYNAMIC CONFIGURATION OF KANBAN SYSTEMS. , 2018, , .		2
30	Real-time Predictive Maintenance Based on Complex Event Processing. , 2018, , 291-296.		2
31	Social Media Analytics for Decision Support in Fashion Buying Processes. Springer Series in Fashion Business, 2018, , 71-93.	0.3	2
32	Simulation and Optimization of Operations for Offshore Installations Planning Using a Model Predictive Control Scheme. , 2019, , .		2
33	Towards individualized shoes: Deep learning-based fault detection for 3D printed footwear. Procedia CIRP, 2022, 107, 196-201.	1.0	2
34	Automated Surface Inspection of Micro Parts. , 2010, , .		1
35	Risk-Optimized Design of Production Systems by Use of GRAMOSA. Mathematical Problems in Engineering, 2014, 2014, 1-9.	0.6	1
36	Simulation of maintenance activities for micro-manufacturing systems by use of predictive quality control charts. , 2017, , .		1

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37	Inverting Prediction Models in Micro Production for Process Design. MATEC Web of Conferences, 2018, 190, 15007.	0.1	1
38	Klassifikation von OberflÃchenunvollkommenheiten in der Mikrokaltumformung. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2010, 105, 42-46.	0.2	1
39	Autonomous, low-cost sensor module for fill level measurement for a self-learning electronic Kanban system. IFAC-PapersOnLine, 2021, 54, 623-628.	0.5	1
40	Fast Quality Inspection of Micro Cold Formed Parts using Telecentric Digital Holographic Microscopy. MATEC Web of Conferences, 2018, 190, 15008.	0.1	0
41	A Crew Scheduling Model to Incrementally Optimize Workforce Assignments for Offshore Wind Farm Constructions. Energies, 2021, 14, 6963.	1.6	0
42	Dreidimensionales Layout fÃ¼r Mikrofabriken. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2009, 104, 791-795.	0.2	0
43	Process Design. Lecture Notes in Production Engineering, 2020, , 95-132.	0.3	0
44	A Mixed-Integer Formulation to Optimize the Resupply of Components for the Installation of Offshore Wind Farms. , 2020, , .		0