Oliver H Riedel

List of Publications by Year
in descending order

65 papers	478 citations	1307366 7 h-index	794469 19 g-index
69 all docs	69 docs citations	69 times ranked	323 citing authors

#	Article	IF	Citations
1	Aftereffects and Sense of Presence in Virtual Environments: Formulation of a Research and Development Agenda. International Journal of Human-Computer Interaction, 1998, 10, 135-187.	3.3	195
2	Reduction of Support Structures and Building Time by Optimized Path Planning Algorithms in Multi-axis Additive Manufacturing. Procedia CIRP, 2018, 67, 221-226.	1.0	37
3	Real-time co-simulation for the virtual commissioning of production systems. Procedia CIRP, 2019, 79, 397-402.	1.0	35
4	Model-Based Systems Engineering for Machine Tools and Production Systems (Model-Based) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	1.9	19
5	Multi-axis 3D printing of gelatin methacryloyl hydrogels on a non-planar surface obtained from magnetic resonance imaging. Additive Manufacturing, 2022, 50, 102566.	1.7	10
6	Method for load-capable path planning in multi-axis fused deposition modeling. Procedia CIRP, 2019, 84, 335-340.	1.0	9
7	Holistic planning and optimization of human-centred workplaces with integrated Exoskeleton technology. Procedia CIRP, 2020, 88, 214-217.	1.0	8
8	Rent'n'Produce: A Secure Cloud Manufacturing Platform for Small and Medium Enterprises. , 2018, , .		7
9	Production planning and control systems â€“ a new software architecture Connectivity in target. Procedia CIRP, 2019, 79, 361-366.	1.0	7
10	Skill-based Metamodel for sustaining the process-oriented cyber-physical System Description. , 2019, , .		7
11	TSN-based Converged Industrial Networks: Evolutionary Steps and Migration Paths. , 2020, , .		7
12	Beyond Model-Based Systems Engineering towards Managing Complexity. Procedia CIRP, 2020, 91, 325-329.	1.0	7
13	A Process-Planning Framework for Sustainable Manufacturing. Energies, 2021, 14, 5811.	1.6	7
14	Engineering of machine tools and manufacturing systems using cyber-physical systems. , 2017, , .		6
15	Platform architecture concept for the composition of collective cloud manufacturing. , 2018, , .		6
16	Generating Smooth Trajectories in Local Path Planning for Automated Guided Vehicles in Production. Procedia Manufacturing, 2019, 39, 98-105.	1.9	6
17	Distributed, Collaborative Virtual Reality Application for Product Development with Simple Avatar Calibration Method. , 2019, , .		6
18	Control architecture for embedding reinforcement learning frameworks on industrial control hardware. , 2020, , .		6

#	Article	IF	Citations
19	Distributed Manufacturing. , 2019, , .		5
20	Echtzeit-Co-Simulation fÃ¼r die Virtuelle Inbetriebnahme. Atp Magazin, 2018, 60, 44-55.	0.3	5
21	Simulation-assisted run-to-run control for battery manufacturing in a cloud environment. , 2017, , .		4
22	Production Planning and Control Systems. , 2018, , .		4
23	Securing the Data Flow for Blockchain Technology in a Production Environment. IFAC-PapersOnLine, 2019, 52, 125-130.	0.5	4
24	A software architecture for a multi-axis additive manufacturing path-planning tool. Procedia CIRP, 2020, 88, 433-438.	1.0	4
25	Graph-based Data Model for Assembly-Specific Capability Description for Fully Automated Assembly Line Design. , 2020, , .		4
26	Microservice-oriented master control for AGV in the automotive factory of the future. Proceedings, 2017, , 807-821.	0.2	3
27	Architecture and Implementation of an Interface for Intelligent Tools in Machine Tools. Procedia Manufacturing, 2017, 11, 2077-2082.	1.9	3
28	VD1: a technical approach to a hybrid 2D and 3D desktop environment. , 2018, , .		3
29	A lifecycle model to support continuous component evolution in embedded automotive systems. Proceedings, 2019, , 1175-1189.	0.2	3
30	Arithmetic Coding for Floating-Point Numbers. , 2021, , .		3
31	EIPPMâ€"The Executable Integrative Product-Production Model. Computers, 2021, 10, 72.	2.1	3
32	VIRUSI. , 1993, , 227-243.		3
33	A data model for data gathering from heterogeneous IoT and Industry 4.0 applications. Proceedings, 2018, , 843-857.	0.2	3
34	Towards an Automated Product-Production System Design - Combining Simulation-based Engineering and Graph-based Design Languages. Procedia Manufacturing, 2020, 52, 258-265.	1.9	3
35	Modellvernetzung im Advanced Systems Engineering. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2020, 115, 545-549.	0.2	3
36	Assembly Process Model for Automated Assembly Line Design. , 2021, , .		3

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37	A platform-independent communication framework for the simplified development of shop-floor applications as microservice components. , 2018, , .		2
38	Collective Cloud Manufacturing for Maintaining Diversity in Production through Digital Transformation. , 2019, , .		2
39	Reinforcement Learning Approach to Vibration Compensation for Dynamic Feed Drive Systems. , 2019, , .		2
40	An evolutionary data model for the implementation of collective cloud manufacturing to maintain individual value-added networks. , 2019, , .		2
41	Connected production planning and control systems â€“ implementation and the optimization process for subcontracting. Procedia CIRP, 2020, 88, 191-196.	1.0	2
42	Reinforcement learning methods based on GPU accelerated industrial control hardware. Neural Computing and Applications, 2021, 33, 12191-12207.	3.2	2
43	Feature recognition for graph-based assembly product representation using machine learning. , 2021, , .		2
44	Mobiles Plug-In Labor. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2021, 116, 75-81.	0.2	1
45	Implicit Templates for Conformance Units in OPC UA Companion Specifications. , 2021, , .		1
46	Comparative Analysis of Factory Simulation Description Models for Comprehensive Description of Model Design. , 2020, , .		1
47	VILAGE Virtueller Layoutgestalter. , 1993, , 47-59.		1
48	Engineering mit cyber-physischen Systemen. Atp Magazin, 2018, 60, 68-78.	0.3	1
49	Fragmentation in Reconfigured Real-time Production Networks. , 2020, , 105-115.		1
50	Wertstromgerechte Produktgestaltung mittels Simulation absichern. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2021, 116, 779-784.	0.2	1
51	Detection of Attacks in Smart Grids via Extended Kalman Filter and Correlation Analysis. , 2020, , .		1
52	Hybrid Commissioning of Production Plants. , 2021, , .		1
53	Matching Algorithm for Automated Resource Selection within Assembly Line Design. , 2021, , .		1
54	CIA-tool: a tool for cooperative-interactive planning in virtual environments. Advances in Human Factors/Ergonomics, 1995, , 575-586.	0.1	0

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55	Model for the Client-Oriented Selection of Additive Manufacturing Infrastructure based on Information gathered from Production Networks. Procedia CIRP, 2019, 84, 322-327.	1.0	0
56	Operations for non-disruptive modification of real-time network schedules. , 2021, , .		0
57	In-Process Workpiece Geometry Estimation for Robotic Arc Welding based on Supervised Learning for Multi-Sensor Inputs. , 2021, , .		0
58	Supervised learning based observer for in-process tool offset estimation in robotic arc welding applications. , 2021, , .		0
59	Einsatzpotentiale fÃ¼r immersive Visualisierungstechnik in der Fertigungsplanung. , 2000, , 386-396.		0
60	Simulation von Umstellungsoperationen mit Virtual Reality. , 1994, , 241-257.		0
61	Shareconomy in der Fertigungsindustrie. ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb, 2018, 113, 775-778.	0.2	0
62	Ambiguity Tolerant Commissioning Ontology: Targeting Client Communication. , 2021, , .		0
63	Resulting Artifacts and Application Scenarios of the Communication Intermediate Layer SFCS With A Focus on Usability for the Automation Industry. , 2021, , .		0
64	Deep Reinforcement Learning using Cyclical Learning Rates. , 2020, , .		0
65	Towards Data-driven Production: Analysis of Data Models Describing Machinery Jobs in OPC UA. , 2022, , .		0