

Dominik Matt

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

144 papers	1,732 citations	24 h-index	35 g-index
148 ext. papers	2,113 ext. citations	1.9 avg, IF	5.86 L-index

#	Paper	IF	Citations
144	Industrial digitalization. A systematic literature review and research agenda. <i>European Management Journal</i> , 2022 ,	4.8	7
143	Systematic selection methodology for worker assistance systems in manufacturing. <i>Computers and Industrial Engineering</i> , 2022 , 166, 107982	6.4	4
142	Towards Sustainable Manufacturing: A Case Study for Sustainable Packaging Redesign. <i>Lecture Notes in Mechanical Engineering</i> , 2022 , 84-93	0.4	1
141	The role of innovation ecosystems in Industry 4.0 adoption. <i>Journal of Manufacturing Technology Management</i> , 2021 , 32, 369-395	7.1	4
140	On the Design of a Decision Support System for Robotic Equipment Adoption in Construction Processes. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 11415	2.6	0
139	Biological Transformation in Manufacturing: Overview and Fields of Application. <i>IEEE Engineering Management Review</i> , 2021 , 1-1	3.6	
138	BIM-Integrated Collaborative Robotics for Application in Building Construction and Maintenance. <i>Robotics</i> , 2021 , 10, 2	2.8	9
137	Application of Axiomatic Design for the Design of Flexible and Agile Manufacturing Systems 2021 , 483-519		
136	The Application of Digital Worker Assistance Systems to Support Workers with Disabilities in Assembly Processes. <i>Procedia CIRP</i> , 2021 , 103, 243-249	1.8	0
135	Integrating BIM with Lean Construction approach: Functional requirements and production management software. <i>Automation in Construction</i> , 2021 , 132, 103969	9.6	3
134	Research Fields and Challenges to implement Cyber-Physical Production Systems in SMEs: A Literature Review. <i>Chiang Mai University Journal of Natural Sciences</i> , 2021 , 20,	1.2	1
133	Worker assistance systems in manufacturing: A review of the state of the art and future directions. <i>Journal of Manufacturing Systems</i> , 2021 , 59, 228-250	9.1	24
132	Development of a BIM-based production planning and control system for Lean Construction through advancement and integration of existing management techniques. <i>Frontiers of Engineering Management</i> , 2021 , 8, 429-441	2.7	5
131	Optimizing Collaborative Robotic Workspaces in Industry by Applying Mixed Reality. <i>Lecture Notes in Computer Science</i> , 2021 , 544-559	0.9	0
130	Methodology and Operating Tool for Urban Renovation: The Case Study of the Italian City of Meran. <i>Green Energy and Technology</i> , 2021 , 171-181	0.6	1
129	Industrial Assistance Systems to Enhance Human-Machine Interaction and Operator's Capabilities in Assembly 2021 , 129-161		0
128	Function-Based Mapping of Industrial Assistance Systems to User Groups in Production. <i>Procedia CIRP</i> , 2021 , 96, 278-283	1.8	1

127	Exploiting BIM and Sensor Data Through Web-Based CAFM. <i>Advances in Civil and Industrial Engineering Book Series</i> , 2021 , 341-364	0.5	
126	Decision support systems in building construction – An Axiomatic Design approach. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021 , 1174, 012004	0.4	
125	Status of the Implementation of Industry 4.0 in SMEs and Framework for Smart Manufacturing 2021 , 3-26		2
124	AI and ML for Human-Robot Cooperation in Intelligent and Flexible Manufacturing 2021 , 95-127		2
123	Knowledge Transfer and Introduction of Industry 4.0 in SMEs 2021 , 275-302		3
122	The Advantages of Industry 4.0 Applications for Sustainability: Results from a Sample of Manufacturing Companies. <i>Sustainability</i> , 2020 , 12, 3647	3.6	58
121	A Maturity Level-Based Assessment Tool to Enhance the Implementation of Industry 4.0 in Small and Medium-Sized Enterprises. <i>Sustainability</i> , 2020 , 12, 3559	3.6	27
120	Integration of Life Cycle Data in a BIM Object Library to Support Green and Digital Public Procurements. <i>International Journal of Sustainable Development and Planning</i> , 2020 , 15, 983-990	2	2
119	A Quantitative Evaluation Framework for the Benefit of Building Information Modeling for Small and Medium Enterprises Leveraging Risk Management Concepts. <i>IFIP Advances in Information and Communication Technology</i> , 2020 , 711-723	0.5	
118	Die Natur als Inspiration. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2020 , 115, 158-161	0.5	2
117	SME 4.0: The Role of Small- and Medium-Sized Enterprises in the Digital Transformation 2020 , 3-36		33
116	SME Requirements and Guidelines for the Design of Smart and Highly Adaptable Manufacturing Systems 2020 , 39-72		8
115	Combining the Robot Operating System with Building Information Modeling for Robotic Applications in Construction Logistics. <i>Mechanisms and Machine Science</i> , 2020 , 245-253	0.3	6
114	State of the Art of Non-vision-Based Localization Technologies for AR in Facility Management. <i>Lecture Notes in Computer Science</i> , 2020 , 255-272	0.9	2
113	A deployment-friendly decentralized scheduling approach for cooperative multi-agent systems in production systems. <i>Procedia Manufacturing</i> , 2020 , 52, 127-132	1.5	1
112	From Design for Assembly to Design for Collaborative Assembly - Product Design Principles for Enhancing Safety, Ergonomics and Efficiency in Human-Robot Collaboration. <i>Procedia CIRP</i> , 2020 , 91, 546-552	1.8	6
111	Digital transformation challenges: strategies emerging from a multi-stakeholder approach. <i>TQM Journal</i> , 2020 , 32, 697-724	3.4	44
110	Lean management in hospitality: methods, applications and future directions. <i>International Journal of Services and Operations Management</i> , 2020 , 36, 303	0.4	4

109	Safety, Ergonomics and Efficiency in Human-Robot Collaborative Assembly: Design Guidelines and Requirements. <i>Procedia CIRP</i> , 2020 , 91, 367-372	1.8	12
108	Study of the impact of projection-based assistance systems for improving the learning curve in assembly processes. <i>Procedia CIRP</i> , 2020 , 88, 98-103	1.8	4
107	Decision Support in Building Construction: A Systematic Review of Methods and Application Areas. <i>Buildings</i> , 2020 , 10, 170	3.2	10
106	Urban production IIA socially sustainable factory concept to overcome shortcomings of qualified workers in smart SMEs. <i>Computers and Industrial Engineering</i> , 2020 , 139, 105384	6.4	35
105	Collaborative Robotics Safety Control Application Using Dynamic Safety Zones Based on the ISO/TS 15066:2016. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 430-437	0.4	4
104	A human-in-the-loop cyber-physical system for collaborative assembly in smart manufacturing. <i>Procedia CIRP</i> , 2019 , 81, 600-605	1.8	25
103	AD Design Guidelines for Implementing I4.0 Learning Factories. <i>Procedia Manufacturing</i> , 2019 , 31, 239-244	0.5	8
102	Pushing Digital Automation of Configure-to-Order Services in Small and Medium Enterprises of the Construction Equipment Industry: A Design Science Research Approach. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3780	2.6	16
101	BIM-based and AR Application Combined with Location-Based Management System for the Improvement of the Construction Performance. <i>Buildings</i> , 2019 , 9, 118	3.2	36
100	Processing of use cases for the development of an open platform to support the smart urban development. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 297, 012009	0.3	1
99	Eye Tracking in der Produktion 4.0. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2019 , 114, 72-75	0.5	2
98	Concept Design of a Digital Shop Floor Information System for Assembly Operators in Machine Industry. <i>MATEC Web of Conferences</i> , 2019 , 301, 00017	0.3	4
97	From Sensors to BIM: Monitoring Comfort Conditions of Social Housing with the KlimaKit Model. <i>Lecture Notes in Computer Science</i> , 2019 , 108-115	0.9	3
96	Application of Decision Support Systems for Advanced Equipment Selection in Construction. <i>Lecture Notes in Computer Science</i> , 2019 , 229-235	0.9	2
95	Computer Vision Approach for Indoor Location Recognition Within an Augmented Reality Mobile Application. <i>Lecture Notes in Computer Science</i> , 2019 , 45-53	0.9	1
94	Enhancing Automation in the Construction Equipment Industry Through Implementation of BIM. <i>Lecture Notes in Computer Science</i> , 2019 , 64-73	0.9	1
93	Roadmap in eine Digitale Welt. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2019 , 114, 576-579	0.5	3
92	An evaluation methodology for the conversion of manual assembly systems into human-robot collaborative workcells. <i>Procedia Manufacturing</i> , 2019 , 38, 358-366	1.5	20

91	Inclusion of Workers with Disabilities in Production 4.0: Legal Foundations in Europe and Potentials Through Worker Assistance Systems. <i>Sustainability</i> , 2019 , 11, 5978	3.6	20
90	Axiomatic design guidelines for the design of flexible and agile manufacturing and assembly systems for SMEs. <i>International Journal on Interactive Design and Manufacturing</i> , 2019 , 13, 1-22	1.9	24
89	Complexity reduction in engineer-to-order industry through real-time capable production planning and control. <i>Production Engineering</i> , 2018 , 12, 341-352	1.9	24
88	Parametric and Generative Design techniques in mass-production environments as effective enablers of Industry 4.0 approaches in the Building Industry. <i>Automation in Construction</i> , 2018 , 92, 270-285	0.6	45
87	Investigating benefits and criticisms of BIM for construction scheduling in SMES: An Italian case study. <i>International Journal of Sustainable Development and Planning</i> , 2018 , 13, 139-150	2	9
86	Smart Shopfloor Management. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2018 , 113, 17-21	0.5	8
85	Knowledge Transfer and Introduction of Industry 4.0 in SMEs. <i>Advances in Business Information Systems and Analytics Book Series</i> , 2018 , 256-282	0.4	10
84	Vernetzung in Cyber-Physischen Produktionssystemen. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2018 , 113, 165-169	0.5	
83	Development of a Digital Platform Based on the Integration of Augmented Reality and BIM for the Management of Information in Construction Processes. <i>IFIP Advances in Information and Communication Technology</i> , 2018 , 46-55	0.5	13
82	Experimental Evaluation and Comparison of Low-Cost Adaptive Mechatronic Grippers. <i>Mechanisms and Machine Science</i> , 2018 , 630-637	0.3	
81	Design of a low-cost loading/unloading mechanism for processing stations in an automated production environment. <i>MATEC Web of Conferences</i> , 2018 , 223, 01001	0.3	
80	Investigation of Assessment and Maturity Stage Models for Assessing the Implementation of Industry 4.0 2018 ,		4
79	Communication Concept of DeConSim: a Decentralized Control Simulator for Production Systems. <i>Procedia Manufacturing</i> , 2018 , 24, 100-106	1.5	4
78	Intelligent workpiece carrier for distributed data collection and control in manufacturing environments. <i>Procedia Manufacturing</i> , 2018 , 24, 190-195	1.5	5
77	Application of Axiomatic Design for the Design of a Safe Collaborative Human-Robot Assembly Workplace. <i>MATEC Web of Conferences</i> , 2018 , 223, 01003	0.3	12
76	Axiomatic Design based Design of a Software Prototype for Smart Shopfloor Management. <i>MATEC Web of Conferences</i> , 2018 , 223, 01012	0.3	4
75	Collaborative Tool for the Construction Site to Enhance Lean Project Delivery. <i>Lecture Notes in Computer Science</i> , 2018 , 192-199	0.9	4
74	Complexity Measures and Models in Supply Chain Networks. <i>Complexity</i> , 2018 , 2018, 1-3	1.6	1

73	Critical Factors for Introducing Lean Product Development to Small and Medium sized Enterprises in Italy. <i>Procedia CIRP</i> , 2017 , 60, 362-367	1.8	27
72	Design for Mass Customization: Rethinking Prefabricated Housing Using Axiomatic Design. <i>Journal of Architectural Engineering</i> , 2017 , 23, 05017004	1.5	9
71	Parametric and Generative Design Techniques for Mass-Customization in Building Industry: A Case Study for Glued-Laminated Timber. <i>Procedia CIRP</i> , 2017 , 60, 392-397	1.8	16
70	Axiomatic Design of a Framework for the Comprehensive Optimization of Patient Flows in Hospitals. <i>Journal of Healthcare Engineering</i> , 2017 , 2017, 2309265	3.7	16
69	(Re-)Design of a Demonstration Model for a Flexible and Decentralized Cyber-Physical Production System (CPPS). <i>MATEC Web of Conferences</i> , 2017 , 127, 01016	0.3	4
68	Distributed manufacturing network models of smart and agile mini-factories. <i>International Journal of Agile Systems and Management</i> , 2017 , 10, 185	1.7	45
67	Enabling Connectivity of Cyber-physical Production Systems: A Conceptual Framework. <i>Procedia Manufacturing</i> , 2017 , 11, 822-829	1.5	35
66	Simulation Based Validation of Supply Chain Effects through ICT enabled Real-time-capability in ETO Production Planning. <i>Procedia Manufacturing</i> , 2017 , 11, 846-853	1.5	21
65	Distributed manufacturing network models of smart and agile mini-factories. <i>International Journal of Agile Systems and Management</i> , 2017 , 10, 185	1.7	7
64	The Way from Lean Product Development (LPD) to Smart Product Development (SPD). <i>Procedia CIRP</i> , 2016 , 50, 26-31	1.8	43
63	Design and Implementation Approach for Distributed Manufacturing Networks Using Axiomatic Design 2016 , 225-250		4
62	Sustainable production in emerging markets through Distributed Manufacturing Systems (DMS). <i>Journal of Cleaner Production</i> , 2016 , 135, 127-138	10.3	84
61	Requirements for the Design of Flexible and Changeable Manufacturing and Assembly Systems: A SME-survey. <i>Procedia CIRP</i> , 2016 , 41, 207-212	1.8	47
60	Lean Hospitality - Application of Lean Management Methods in the Hotel Sector. <i>Procedia CIRP</i> , 2016 , 41, 614-619	1.8	26
59	Applications of TRIZ and Axiomatic Design: A Comparison to Deduce Best Practices in Industry. <i>Procedia CIRP</i> , 2016 , 39, 91-96	1.8	16
58	Chapter two Designing assembly lines for mass customization production systems 2016 , 15-36		4
57	Smart Factory f�r den Mittelstand. <i>ZWF Zeitschrift F�r Wirtschaftlichen Fabrikbetrieb</i> , 2016 , 111, 52-55	0.5	11
56	A preliminary study on the changes in the Italian automotive supply chain for the introduction of electric vehicles. <i>Journal of Industrial Engineering and Management</i> , 2016 , 9, 450	1.7	4

55	Factors and barriers affecting the purchase of electric vehicles in the Italian market. <i>International Journal of Productivity and Quality Management</i> , 2016 , 18, 210	0.3	2
54	Parametric and Generative Design Techniques for Digitalization in Building Industry: the Case Study of Glued- Laminated-Timber Industry. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 157, 012033	0.4	1
53	Customer-oriented Production System for Supplier Companies in CTO. <i>Procedia CIRP</i> , 2016 , 57, 533-538	1.8	3
52	Prefabricated Timber Façade for the Energy Refurbishment of the Italian Building Stock: The Ri.Fa.Re. Project. <i>Energy Procedia</i> , 2016 , 96, 788-799	2.3	12
51	Ideality in Axiomatic Design and beyond. <i>Procedia CIRP</i> , 2016 , 53, 95-100	1.8	4
50	Application of Axiomatic Design in Manufacturing System Design: A Literature Review. <i>Procedia CIRP</i> , 2016 , 53, 1-7	1.8	12
49	Sustainability in the Supply Chain through Synchronization of Demand and Supply in ETO-Companies. <i>Procedia CIRP</i> , 2015 , 29, 215-220	1.8	17
48	Sustainability in Manufacturing through Distributed Manufacturing Systems (DMS). <i>Procedia CIRP</i> , 2015 , 29, 544-549	1.8	38
47	Trends towards Distributed Manufacturing Systems and Modern Forms for their Design. <i>Procedia CIRP</i> , 2015 , 33, 185-190	1.8	71
46	Axiomatic Design Based Guidelines for the Design of a Lean Product Development Process. <i>Procedia CIRP</i> , 2015 , 34, 112-118	1.8	16
45	Synchronization of Engineering, Manufacturing and on-site Installation in Lean ETO-Enterprises. <i>Procedia CIRP</i> , 2015 , 37, 128-133	1.8	8
44	On-site Oriented Capacity Regulation for Fabrication Shops in Engineer-to-Order Companies (ETO). <i>Procedia CIRP</i> , 2015 , 33, 197-202	1.8	7
43	Axiomatic Design and TRIZ: Deficiencies of their Integrated Use and Future Opportunities. <i>Procedia CIRP</i> , 2015 , 34, 1-6	1.8	15
42	Modular architectures for future alternative vehicles. <i>International Journal of Vehicle Design</i> , 2015 , 67, 368	2.4	3
41	Mobile Factory Network (MFN) [Network of Flexible and Agile Manufacturing Systems in the Construction Industry. <i>Applied Mechanics and Materials</i> , 2015 , 752-753, 1368-1373	0.3	6
40	Systematic Design of SME Manufacturing and Assembly Systems Based on Axiomatic Design. <i>Procedia CIRP</i> , 2015 , 34, 81-86	1.8	10
39	An axiomatic design-based approach for the patient-value-oriented design of a sustainable Lean healthcare system. <i>International Journal of Procurement Management</i> , 2015 , 8, 66	0.6	5
38	Increasing productivity in ETO construction projects through a lean methodology for demand predictability 2015 ,		11

37	Mobile On-site Factories & Scalable and distributed manufacturing systems for the construction industry 2015 ,		9
36	Synchronisierung von ETO-Fertigung und Baustellenmontage. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2015 , 110, 9-13	0.5	0
35	Mini-factory A Learning Factory Concept for Students and Small and Medium Sized Enterprises. <i>Procedia CIRP</i> , 2014 , 17, 178-183	1.8	46
34	Synchronization of the Manufacturing Process and On-site Installation in ETO Companies. <i>Procedia CIRP</i> , 2014 , 17, 457-462	1.8	23
33	Automotive Design Quantification: Parameters Defining Exterior Proportions According to Car Segment 2014 ,		3
32	Adaptation of the value stream mapping approach to the design of lean engineer-to-order production systems. <i>Journal of Manufacturing Technology Management</i> , 2014 , 25, 334-350	7.1	41
31	Implementing Lean in Engineer-to-Order Manufacturing. <i>Advances in Logistics, Operations, and Management Science Book Series</i> , 2014 , 148-172	0.3	19
30	Morgenstadt Urban Production in the City of the Future 2014 , 13-16		4
29	A Three Level Model for the Design, Planning and Operation of Changeable Production Systems in Distributed Manufacturing 2014 , 23-28		2
28	SMART Reconfigurability Approach in Manufacture of Steel and Faade Constructions 2014 , 29-34		4
27	The Impact of E-mobility on Automotive Supply Chain 2014 , 467-472		
26	Implementation of Lean Production in Small Sized Enterprises. <i>Procedia CIRP</i> , 2013 , 12, 420-425	1.8	62
25	Adaptation of the Value Stream Optimization Approach to Collaborative Company Networks in the Construction Industry. <i>Procedia CIRP</i> , 2013 , 12, 402-407	1.8	10
24	Design of a Network of Scalable Modular Manufacturing Systems to Support Geographically Distributed Production of Mass Customized Goods. <i>Procedia CIRP</i> , 2013 , 12, 438-443	1.8	24
23	Extension of the Value Stream Mapping Approach to the Comprehensive Design of a Lean Sheet Metal Manufacturing System: An Industrial Case Study. <i>Key Engineering Materials</i> , 2013 , 549, 537-544	0.4	2
22	Design of a scalable assembly system for product variety: a case study. <i>Assembly Automation</i> , 2013 , 33, 117-126	2.1	19
21	Application of Axiomatic Design principles to control complexity dynamics in a mixed-model assembly system: a case analysis. <i>International Journal of Production Research</i> , 2012 , 50, 1850-1861	7.8	24
20	Factors Affecting Future Scenarios for Alternative Vehicles Market. <i>Advanced Materials Research</i> , 2012 , 608-609, 1607-1612	0.5	2

19	Design of a Scalable Modular Production System for a Two-Stage Food Service Franchise System. <i>International Journal of Engineering Business Management</i> , 2012 , 4, 32	1.9	10
18	Enabling Manufacturing Competitiveness and Economic Sustainability 2012 ,		6
17	Continuous Improvement of Manufacturing Systems with the Concept of Functional Periodicity. <i>Key Engineering Materials</i> , 2011 , 473, 783-790	0.4	9
16	Managing Cooperation in Supply Network Structures and Small or Medium-sized Enterprises 2011 ,		6
15	Organization in SME Networks 2011 , 1-18		1
14	Functional periodicity as a concept for the (re-)design to agility of production systems. <i>Production Engineering</i> , 2010 , 4, 363-369	1.9	10
13	Kundennutzenorientierte Strategieentwicklung. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2010 , 105, 700-705	0.5	1
12	Design of Lean Manufacturing Support Systems in Make-to-Order Production. <i>Key Engineering Materials</i> , 2009 , 410-411, 151-158	0.4	15
11	Template based production system design. <i>Journal of Manufacturing Technology Management</i> , 2008 , 19, 783-797	7.1	35
10	Reducing the structural complexity of growing organizational systems by means of axiomatic designed networks of core competence cells. <i>Journal of Manufacturing Systems</i> , 2007 , 26, 178-187	9.1	20
9	Design of changeable assembly systems - a complexity theory based approach 2007 ,		3
8	Achieving Operational Excellence Through Systematic Complexity Reduction in Manufacturing System Design. <i>Key Engineering Materials</i> , 2007 , 344, 865-872	0.4	12
7	Den Kundennutzen im Visier. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2007 , 102, 375-379	0.5	1
6	VALUE STREAM ORIENTED PLANNING OF SUPPLY NETWORKS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 559-564		2
5	Nutzeneffekte von digitalen Planungstools in Bereichs- und Betriebsmittelplanung. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2006 , 101, 719-722	0.5	
4	Planung autonomer, wandlungsffiger Produktionsmodule. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2002 , 97, 173-177	0.5	4
3	Die Produktionslandkarte <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2001 , 96, 328-331	0.5	1
2	Conceptual Foundations for a New Lean Bim-Based Production System in Construction		4

