

# Matthias ThÃ¼rer

## List of Publications by Year in descending order

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123  
papers

2,601  
citations

293460

24  
h-index

286692

43  
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133  
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133  
docs citations

133  
times ranked

1668  
citing authors

#	ARTICLE	IF	CITATIONS
1	Balancing earliness and tardiness within workload control order release: an assessment by simulation. <i>Flexible Services and Manufacturing Journal</i> , 2023, 35, 487-508.	1.9	4
2	Dynamic planned lead times in production planning and control systems: does the lead time syndrome matter?. <i>International Journal of Production Research</i> , 2023, 61, 1268-1282.	4.9	3
3	Factors for choosing production control systems in make-to-order shops: a systematic literature review. <i>Journal of Intelligent Manufacturing</i> , 2022, 33, 639-674.	4.4	8
4	Direct Workload Control: simplifying continuous order release. <i>International Journal of Production Research</i> , 2022, 60, 1424-1437.	4.9	4
5	Production planning and control in multi-stage assembly systems: an assessment of Kanban, MRP, OPT (DBR) and DDMRP by simulation. <i>International Journal of Production Research</i> , 2022, 60, 1036-1050.	4.9	23
6	Manufacturing strategy in small firms: unveiling the drivers of strategic consensus. <i>Production Planning and Control</i> , 2022, 33, 37-55.	5.8	6
7	Bottleneck detection in high-variety make-to-Order shops with complex routings: an assessment by simulation. <i>Production Planning and Control</i> , 2022, 33, 1481-1492.	5.8	8
8	Order release, dispatching and resource assignment in multiple resource-constrained job shops: an assessment by simulation. <i>International Journal of Production Research</i> , 2022, 60, 3669-3681.	4.9	7
9	Digital Twin Architecture for Production Logistics: The Critical Role of Programmable Logic Controllers (PLCs). <i>Procedia Computer Science</i> , 2022, 200, 710-717.	1.2	5
10	Towards Lean Automation: Fine-Grained sentiment analysis for customer value identification. <i>Computers and Industrial Engineering</i> , 2022, 169, 108186.	3.4	8
11	User preference mining based on fine-grained sentiment analysis. <i>Journal of Retailing and Consumer Services</i> , 2022, 68, 103013.	5.3	9
12	Healthcare 4.0 digital applications: An empirical study on measures, bundles and patient-centered performance. <i>Technological Forecasting and Social Change</i> , 2022, 181, 121780.	6.2	9
13	When itâ€™s the slaves that pay: In search of a fair due diligence cost distribution in conflict mineral supply chains. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2022, 164, 102801.	3.7	10
14	Workload Control order release in general and pure flow shops with limited buffer size induced blocking: an assessment by simulation. <i>International Journal of Production Research</i> , 2021, 59, 2558-2569.	4.9	5
15	Systematic review and discussion of production control systems that emerged between 1999 and 2018. <i>Production Planning and Control</i> , 2021, 32, 511-525.	5.8	23
16	Workload control in additive manufacturing shops where post-processing is a constraint: an assessment by simulation. <i>International Journal of Production Research</i> , 2021, 59, 4268-4286.	4.9	12
17	Improving superfluous load avoidance release (SLAR): A new load-based SLAR mechanism. <i>International Journal of Production Economics</i> , 2021, 231, 107881.	5.1	3
18	Identifying pathways to a high-performing lean automation implementation: An empirical study in the manufacturing industry. <i>International Journal of Production Economics</i> , 2021, 231, 107918.	5.1	30

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19	Inventory diagnosis for flow improvement – A design science approach. <i>Journal of Operations Management</i> , 2021, 67, 560-587.	3.3	11
20	Self-Organizing Material Flow Control using Smart Products: An Assessment by Simulation. <i>Journal of Industrial and Production Engineering</i> , 2021, 38, 148-156.	2.1	2
21	Artificial intelligence for throughput bottleneck analysis – State-of-the-art and future directions. <i>Journal of Manufacturing Systems</i> , 2021, 60, 734-751.	7.6	22
22	Breaking the mould: achieving high-volume production output with additive manufacturing. <i>International Journal of Operations and Production Management</i> , 2021, 41, 1844-1851.	3.5	15
23	Material handling and order release control in high-variety make-to-order shops: an assessment by simulation. <i>Operations Management Research</i> , 2021, 14, 494.	5.0	0
24	Is lean a theory? Viewpoints and outlook. <i>International Journal of Operations and Production Management</i> , 2021, 41, 1852-1878.	3.5	32
25	Workload control and optimised order release: an assessment by simulation. <i>International Journal of Production Research</i> , 2020, 58, 3180-3193.	4.9	14
26	A systematic review of China's belt and road initiative: implications for global supply chain management. <i>International Journal of Production Research</i> , 2020, 58, 2436-2453.	4.9	55
27	The use of finite loading to guide short-term capacity adjustments in make-to-order job shops: an assessment by simulation. <i>International Journal of Production Research</i> , 2020, 58, 3554-3569.	4.9	4
28	Worker assignment in dual resource constrained assembly job shops with worker heterogeneity: an assessment by simulation. <i>International Journal of Production Research</i> , 2020, 58, 6336-6349.	4.9	19
29	Lot synchronization in make-to-order shops with order release control: an assessment by simulation. <i>International Journal of Production Research</i> , 2020, 58, 6724-6738.	4.9	7
30	Institution-driven innovation in Guangdong firms: Moderating effects of in-house formal R&D and industrial environment turbulence. <i>Science and Public Policy</i> , 2020, 47, 194-206.	1.2	5
31	A game theory model based on Gale-Shapley for dual-resource constrained (DRC) flexible job shop scheduling. <i>International Journal of Industrial Engineering Computations</i> , 2020, , 173-184.	0.4	8
32	Classroom Simulations for Teaching Production Control in Nonrepetitive Contexts: Insights for Theory and Practice. <i>Decision Sciences Journal of Innovative Education</i> , 2020, 18, 568-588.	0.5	3
33	Towards the proposition of a Lean Automation framework. <i>Journal of Manufacturing Technology Management</i> , 2020, 32, 593-620.	3.3	47
34	The use of labour flexibility for output control in workload controlled flow shops: A simulation analysis. <i>International Journal of Industrial Engineering Computations</i> , 2020, , 429-442.	0.4	8
35	POLCA Control in Two-Stage Production Systems. <i>Procedia Manufacturing</i> , 2020, 51, 1491-1496.	1.9	1
36	Approximation Algorithms for a New Truck Loading Problem in Urban Freight Transportation. <i>Transportation Science</i> , 2020, 54, 690-702.	2.6	4

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37	State-dependent service rates in make-to-order shops: an assessment by simulation. <i>Operations Management Research</i> , 2020, 13, 70-84.	5.0	2
38	New Forms of Gemba Walks and Their Digital Tools in the Digital Lean Manufacturing World. <i>IFIP Advances in Information and Communication Technology</i> , 2020, , 432-440.	0.5	16
39	Material Flow Control in High-Variety Make-to-Order Shops: Combining COBACABANA and POLCA. <i>Production and Operations Management</i> , 2020, 29, 2138-2152.	2.1	12
40	On the combined effect of due date setting, order release, and output control: an assessment by simulation. <i>International Journal of Production Research</i> , 2019, 57, 1741-1755.	4.9	18
41	Workload control in dual-resource constrained high-variety shops: an assessment by simulation. <i>International Journal of Production Research</i> , 2019, 57, 931-947.	4.9	12
42	Fifty Years of the Strategic Trade-Offs Model: In Memory and Honor of Wickham Skinner. <i>IEEE Engineering Management Review</i> , 2019, 47, 92-96.	1.0	2
43	Digital Twin in Services and Industrial Product Service Systems:. <i>Procedia CIRP</i> , 2019, 83, 57-60.	1.0	60
44	On the Use of Blockchain in Industrial Product Service Systems: A critical Review and Analysis. <i>Procedia CIRP</i> , 2019, 83, 552-556.	1.0	13
45	Institutional incentives and pressures in Chinese manufacturing firms'™ innovation. <i>Management Decision</i> , 2019, 58, 812-827.	2.2	18
46	Circular supply chain management: A definition and structured literature review. <i>Journal of Cleaner Production</i> , 2019, 228, 882-900.	4.6	390
47	On the integration of manufacturing strategy: deconstructing Hoshin Kanri. <i>Management Research Review</i> , 2019, 42, 412-426.	1.5	10
48	On the meaning of ConWIP cards: an assessment by simulation. <i>Journal of Industrial and Production Engineering</i> , 2019, 36, 49-58.	2.1	8
49	Lean manufacturing implementation in regions with scarce resources. <i>Management Decision</i> , 2019, 58, 313-343.	2.2	4
50	Proposal of a Reconfigurability Index Using Analytic Network Process. , 2019, , .		3
51	POLCA: Centralised vs. Decentralised Job Release. <i>IFAC-PapersOnLine</i> , 2019, 52, 1427-1431.	0.5	2
52	Rethinking Jidoka Systems under Automation & Learning Perspectives in the Digital Lean Manufacturing World. <i>IFAC-PapersOnLine</i> , 2019, 52, 899-903.	0.5	53
53	Parts feeding in two-stage assembly system: an assessment by simulation. <i>Journal of Industrial and Production Engineering</i> , 2019, 36, 493-501.	2.1	2
54	IoT-enabled dynamic lean control mechanism for typical production systems. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2019, 10, 1009-1023.	3.3	33

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55	Centralised vs. decentralised control decision in card-based control systems: comparing kanban systems and COBACABANA. <i>International Journal of Production Research</i> , 2019, 57, 322-337.	4.9	17
56	POLC-A: an assessment of POLCA's authorization element. <i>Journal of Intelligent Manufacturing</i> , 2019, 30, 2435-2447.	4.4	13
57	Internet of Things (IoT) driven kanban system for reverse logistics: solid waste collection. <i>Journal of Intelligent Manufacturing</i> , 2019, 30, 2621-2630.	4.4	66
58	Total Quality Management and Quality Circles in the Digital Lean Manufacturing World. <i>IFIP Advances in Information and Communication Technology</i> , 2019, , 3-11.	0.5	19
59	Cyber-Physical Waste Identification and Elimination Strategies in the Digital Lean Manufacturing World. <i>IFIP Advances in Information and Communication Technology</i> , 2019, , 37-45.	0.5	13
60	Application of a diagnostic framework based on the concepts of Workload Control to identify the problems related to the delivery reliability in a company of the aeronautical maintenance sector. <i>Gestão &amp; Produção</i> , 2019, 26, .	0.5	0
61	A note on "beyond the trade-off and cumulative capabilities models: alternative models of operations strategy". <i>International Journal of Production Research</i> , 2018, 56, 4368-4375.	4.9	8
62	On the meaning and use of excellence in the operations literature: a systematic review. <i>Total Quality Management and Business Excellence</i> , 2018, , 1-28.	2.4	5
63	A systematic review of the literature on integrating sustainability into engineering curricula. <i>Journal of Cleaner Production</i> , 2018, 181, 608-617.	4.6	117
64	Bottleneck-oriented order release with shifting bottlenecks: An assessment by simulation. <i>International Journal of Production Economics</i> , 2018, 197, 275-282.	5.1	17
65	THE IMPACT OF GOVERNMENT INTERVENTION ON TECHNOLOGICAL REGIMES: THE SOURCING OF FINANCIAL INNOVATION. <i>International Journal of Innovation Management</i> , 2018, 22, 1850025.	0.7	0
66	On the beat of the drum: improving the flow shop performance of the Drum-Buffer-Rope scheduling mechanism. <i>International Journal of Production Research</i> , 2018, 56, 3294-3305.	4.9	17
67	Digital Lean Cyber-Physical Production Systems: The Emergence of Digital Lean Manufacturing and the Significance of Digital Waste. <i>IFIP Advances in Information and Communication Technology</i> , 2018, , 11-20.	0.5	45
68	Lot splitting under load-limiting order release in high-variety shops: An assessment by simulation. <i>Journal of Manufacturing Systems</i> , 2018, 48, 63-72.	7.6	10
69	System dynamics analysis for an Internet-of-Things-enabled production logistics system. <i>International Journal of Production Research</i> , 2017, 55, 2622-2649.	4.9	90
70	Improving workload control order release: Incorporating a starvation avoidance trigger into continuous release. <i>International Journal of Production Economics</i> , 2017, 194, 181-189.	5.1	23
71	On the backlog-sequencing decision for extending the applicability of ConWIP to high-variety contexts: an assessment by simulation. <i>International Journal of Production Research</i> , 2017, 55, 4695-4711.	4.9	24
72	Optimal configuration of assembly supply chains based on Hybrid augmented Lagrangian coordination in an industrial cluster. <i>Computers and Industrial Engineering</i> , 2017, 112, 511-525.	3.4	13

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73	Load-Based POLCA: An Assessment of the Load Accounting Approach. <i>Advances in Intelligent Systems and Computing</i> , 2017, , 397-405.	0.5	2
74	On the meaning of "Waste": review and definition. <i>Production Planning and Control</i> , 2017, 28, 244-255.	5.8	43
75	Internet of Things-based real-time production logistics synchronization mechanism and method toward customer order dynamics. <i>Transactions of the Institute of Measurement and Control</i> , 2017, 39, 429-445.	1.1	17
76	Drum-buffer-rope and workload control in High-variety flow and job shops with bottlenecks: An assessment by simulation. <i>International Journal of Production Economics</i> , 2017, 188, 116-127.	5.1	33
77	On the integration of due date setting and order release control. <i>Production Planning and Control</i> , 2017, 28, 420-430.	5.8	11
78	Deconstructing bottleneck shiftiness: the impact of bottleneck position on order release control in pure flow shops. <i>Production Planning and Control</i> , 2017, 28, 1223-1235.	5.8	14
79	Improving performance in POLCA controlled high variety shops: An assessment by simulation. <i>Journal of Manufacturing Systems</i> , 2017, 44, 143-153.	7.6	17
80	Warehouse workload control for production logistic. , 2017, , .		5
81	How do Indian firms source from China? Implications on cross-border supply chain management. <i>Decision</i> , 2017, 44, 247-258.	0.8	2
82	On strategic trade-offs: does the principle of energy conservation explain the trade-offs law?. <i>Management Research Review</i> , 2017, 40, 1163-1174.	1.5	1
83	Institution Driven Innovation under Industrial Environment Turbulence. <i>Proceedings - Academy of Management</i> , 2017, 2017, 10870.	0.0	0
84	Workload control in job shops with re-entrant flows: an assessment by simulation. <i>International Journal of Production Research</i> , 2016, 54, 5136-5150.	4.9	16
85	Improving the logistics of a constant order-cycle <i>kanban</i> system. <i>Production Planning and Control</i> , 2016, 27, 650-659.	5.8	11
86	Card-based delivery date promising in pure flow shops with order release control. <i>International Journal of Production Research</i> , 2016, 54, 6798-6811.	4.9	7
87	Rethinking Skinner's model: strategic trade-offs in products and services. <i>Management Research Review</i> , 2016, 39, 1199-1213.	1.5	17
88	Kartenbasierte Steuerungssysteme für eine schlanke Arbeitsgestaltung. , 2016, , .		4
89	Job sequencing and selection within workload control order release: an assessment by simulation. <i>International Journal of Production Research</i> , 2016, 54, 1061-1075.	4.9	16
90	Card-based delivery date promising in high-variety manufacturing with order release control. <i>International Journal of Production Economics</i> , 2016, 172, 19-30.	5.1	12

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91	On the integration of input and output control: Workload Control order release. International Journal of Production Economics, 2016, 174, 43-53.	5.1	24
92	Anhang: Kartenbasierte Systeme im Überblick. , 2016, , 183-192.		0
93	Grundlagen kartenbasierter Steuerungssysteme. , 2016, , 25-45.		0
94	Ein Ansatz zur Auftragssteuerung bei hoher Variabilität: COBACABANA. , 2016, , 129-151.		0
95	&lt;b&gt;Small and Medium Sized Manufacturing Companies in Brazil: Is Innovativeness a Key Competitive Capability to Develop?. Acta Scientiarum - Technology, 2015, 37, 379.	0.4	1
96	A case study of the successful implementation of workload control. Journal of Manufacturing Technology Management, 2015, 26, 280-296.	3.3	25
97	COBACABANA (Control of Balance by Card Based Navigation): An alternative to kanban in the pure flow shop?. International Journal of Production Economics, 2015, 166, 143-151.	5.1	26
98	Simple subcontracting rules for make-to-order shops with limited subcontractor capacity: an assessment by simulation. Production Planning and Control, 2015, 26, 1145-1161.	5.8	5
99	Improving Hospital Performance by Use of Lean Techniques: An Action Research Project in Brazil. Quality Engineering, 2015, 27, 196-211.	0.7	18
100	Job shop control: In search of the key to delivery improvements. International Journal of Production Economics, 2015, 168, 257-266.	5.1	54
101	Concerning Workload Control and Order Release: The Pre-Shop Pool Sequencing Decision. Production and Operations Management, 2015, 24, 1179-1192.	2.1	45
102	Controlled order release: a performance assessment in job shops with sequence-dependent set-up times. Production Planning and Control, 2014, 25, 603-615.	5.8	14
103	Small manufacturers in Brazil: competitive priorities vs. capabilities. International Journal of Advanced Manufacturing Technology, 2014, 74, 1175-1185.	1.5	10
104	Lean Control for Make-to-Order Companies: Integrating Customer Enquiry Management and Order Release. Production and Operations Management, 2014, 23, 463-476.	2.1	64
105	Integrating load-based order release and priority dispatching. International Journal of Production Research, 2014, 52, 1059-1073.	4.9	36
106	Card-based workload control for job shops: Improving COBACABANA. International Journal of Production Economics, 2014, 147, 180-188.	5.1	36
107	Continuous workload control order release revisited: an assessment by simulation. International Journal of Production Research, 2014, 52, 6664-6680.	4.9	25
108	The design of simple subcontracting rules for make-to-order shops: An assessment by simulation. European Journal of Operational Research, 2014, 239, 854-864.	3.5	8

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109	Coping with finite storage space in job shops through order release control: an assessment by simulation. <i>International Journal of Computer Integrated Manufacturing</i> , 2013, 26, 830-838.	2.9	8
110	Towards an Integrated Workload Control (WLC) Concept: The Performance of Due Date Setting Rules in Job Shops with Contingent Orders. <i>International Journal of Production Research</i> , 2013, 51, 4502-4516.	4.9	14
111	Workload control and order release in two-level multi-stage job shops: an assessment by simulation. <i>International Journal of Production Research</i> , 2013, 51, 869-882.	4.9	18
112	Competitive priorities of small manufacturers in Brazil. <i>Industrial Management and Data Systems</i> , 2013, 113, 856-874.	2.2	34
113	The application of workload control in assembly job shops: an assessment by simulation. <i>International Journal of Production Research</i> , 2012, 50, 5048-5062.	4.9	23
114	Improving the applicability of workload control (WLC): the influence of sequence-dependent set-up times on workload controlled job shops. <i>International Journal of Production Research</i> , 2012, 50, 6419-6430.	4.9	23
115	The performance of Due Date setting rules in assembly and multi-stage job shops: an assessment by simulation. <i>International Journal of Production Research</i> , 2012, 50, 5949-5965.	4.9	12
116	Redução do lead time e entregas no prazo em pequenas e médias empresas que fabricam sob encomenda: a abordagem Workload Control (WLC) para o Planejamento e Controle da Produção (PCP). <i>Gestão &amp; Produção</i> , 2012, 19, 43-58.	0.5	3
117	Workload Control and Order Release: A Lean Solution for Make-to-Order Companies. <i>Production and Operations Management</i> , 2012, 21, 939-953.	2.1	87
118	Three decades of workload control research: a systematic review of the literature. <i>International Journal of Production Research</i> , 2011, 49, 6905-6935.	4.9	83
119	Optimising workload norms: the influence of shop floor characteristics on setting workload norms for the workload control concept. <i>International Journal of Production Research</i> , 2011, 49, 1151-1171.	4.9	30
120	Workload control release mechanisms: from practice back to theory building. <i>International Journal of Production Research</i> , 2010, 48, 3593-3617.	4.9	35
121	Simulation-based analysis of lean practices implementation on the supply chain of a public hospital. <i>Production</i> , 0, 30, .	1.3	11
122	On the integration of card-allocation and dispatching decisions in POLCA systems: an assessment by simulation. <i>Production Planning and Control</i> , 0, , 1-8.	5.8	1
123	Extending the POLCA production control system with centralized job release. <i>Production</i> , 0, 30, .	1.3	0