Lars Hvam

List of Publications by Year in descending order

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99 papers	1,306 citations	361413 20 h-index	414414 32 g-index
101 all docs	101 docs citations	101 times ranked	648 citing authors

#	Article	IF	Citations
1	Implementation of digital twins in the process industry: A systematic literature review of enablers and barriers. Computers in Industry, 2022, 134, 103558.	9.9	91
2	Business process management and IT management: The missing integration. International Journal of Information Management, 2016, 36, 142-154.	17.5	88
3	Product complexity and operational performance: A systematic literature review. CIRP Journal of Manufacturing Science and Technology, 2019, 25, 69-83.	4.5	56
4	Improving the quotation process with product configuration. Computers in Industry, 2006, 57, 607-621.	9.9	55
5	Definition and evaluation of product configurator development strategies. Computers in Industry, 2012, 63, 471-481.	9.9	55
6	Efficient onâ€site construction: learning points from a German platform for housing. Construction Innovation, 2011, 11, 338-355.	2.7	52
7	Formal computer-aided product family architecture design for mass customization. Computers in Industry, 2015, 74, 58-70.	9.9	39
8	Mass customisation in the electronics industry: based on modular products and product configuration. International Journal of Mass Customisation, 2006, 1, 410.	1.2	35
9	The impact of product configurators on lead times in engineering-oriented companies. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2011, 25, 197-206.	1.1	35
10	How to scope configuration projects and manage the knowledge they require. Journal of Knowledge Management, 2018, 22, 982-1014.	5.1	33
11	The main challenges for manufacturing companies in implementing and utilizing configurators. Computers in Industry, 2018, 100, 196-211.	9.9	33
12	The documentation of product configuration systems: A framework and an IT solution. Advanced Engineering Informatics, 2017, 32, 163-175.	8.0	31
13	Configuration platform for customisation of design, manufacturing and assembly processes of building faÃ§ade systems: A building information modelling perspective. Automation in Construction, 2019, 106, 102914.	9.8	31
14	A procedure for building product models. Robotics and Computer-Integrated Manufacturing, 1999, 15, 77-87.	9.9	26
15	Reengineering of the quotation process: application of knowledge based systems. Business Process Management Journal, 2004, 10, 200-213.	4.2	25
16	Utilizing platforms in industrialized construction. Construction Innovation, 2015, 15, 84-106.	2.7	25
17	Scrum versus Rational Unified Process in facing the main challenges of product configuration systems development. Journal of Systems and Software, 2020, 170, 110732.	4.5	25
18	Challenges of Digital Transformation: The Case of the Non-profit Sector. , 2018, , .		24

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19	Mass customisation of process plants. International Journal of Mass Customisation, 2006, 1, 445.	1.2	23
20	Return on investment from the use of product configuration systems â€“ A case study. Computers in Industry, 2018, 100, 57-69.	9.9	23
21	The costs and benefits of product configuration projects in engineer-to-order companies. Computers in Industry, 2019, 105, 133-142.	9.9	23
22	The reduction of product and process complexity based on the quantification of product complexity costs. International Journal of Production Research, 2020, 58, 350-366.	7.5	23
23	Impact of product configuration systems on product profitability and costing accuracy. Computers in Industry, 2017, 88, 12-18.	9.9	22
24	CRC cards for product modelling. Computers in Industry, 2003, 50, 57-70.	9.9	21
25	The causes of product configuration project failure. Computers in Industry, 2019, 108, 121-131.	9.9	20
26	A layout technique for class diagrams to be used in product configuration projects. Computers in Industry, 2010, 61, 409-418.	9.9	19
27	A framework for determining product modularity levels. Advances in Mechanical Engineering, 2017, 9, 168781401771942.	1.6	18
28	Mass Customisation and Personalisation in Architecture and Construction. , 0, , .		18
29	Reâ€engineering the specification process. Business Process Management Journal, 1998, 4, 25-43.	4.2	17
30	The modelling techniques of a documentation system that supports the development and maintenance of product configuration systems. International Journal of Mass Customisation, 2007, 2, 1.	1.2	17
31	An approach for the development of visual configuration systems. Computers and Industrial Engineering, 2007, 53, 401-419.	6.3	16
32	Reducing variety in product solution spaces of engineer-to-order companies: the case of Novenco A/S. International Journal of Product Development, 2013, 18, 531.	0.2	16
33	Modularization in the Construction Industry Using a Top-Down Approach. Open Construction and Building Technology Journal, 2013, 7, 88-98.	0.7	15
34	A procedure for the application of product modelling. International Journal of Production Research, 2001, 39, 873-885.	7.5	14
35	Application of design thinking to product-configuration projects. Journal of Manufacturing Technology Management, 2020, 32, 219-241.	6.4	14
36	Evaluating the benefits of a computer-aided software engineering tool to develop and document product configuration systems. Computers in Industry, 2021, 128, 103432.	9.9	14

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37	Product Customization. , 2008, , .		12
38	Understanding the impact of non-standard customisations in an engineer-to-order context: A case study. International Journal of Production Research, 2019, 57, 6780-6794.	7.5	12
39	Optimizing the order processing of customized products using product configuration. Production Engineering, 2011, 5, 595-604.	2.3	11
40	Modularisation strategies in the AEC industry: a comparative analysis. Architectural Engineering and Design Management, 2020, 16, 270-292.	1.7	11
41	Stepwise Modularization in the Construction Industry Using a Bottom-Up Approach. Open Construction and Building Technology Journal, 2013, 7, 99-107.	0.7	11
42	Assessing the cost saving potential of shared product architectures. Concurrent Engineering Research and Applications, 2016, 24, 153-163.	3.2	10
43	Using business critical design rules to frame new architecture introduction in multi-architecture portfolios. International Journal of Production Research, 2018, 56, 7313-7329.	7.5	10
44	Configuration lifecycle management maturity model. Computers in Industry, 2019, 106, 30-47.	9.9	10
45	The costs and benefits of multistage configuration: A framework and case study. Computers and Industrial Engineering, 2021, 153, 107095.	6.3	10
46	Modelling and visualising modular product architectures for mass customisation. International Journal of Mass Customisation, 2008, 2, 216.	1.2	8
47	Rethinking the Business Model in Construction by the Use of Off-Site System Deliverance: Case of the Shaft Project. Journal of Architectural Engineering, 2013, 19, 279-287.	1.6	7
48	The impact of applying product-modelling techniques in configurator projects. International Journal of Production Research, 2019, 57, 4435-4450.	7.5	7
49	Identifying variety-induced complexity cost factors in manufacturing companies and their impact on product profitability. Journal of Manufacturing Systems, 2021, 60, 373-391.	13.9	6
50	Reâ€engineering caused by ISO 9000 certification. Business Process Management Journal, 1997, 3, 192-204.	4.2	5
51	CRC cards to support the development and maintenance of product configuration systems. International Journal of Mass Customisation, 2009, 3, 38.	1.2	5
52	The Use of Design-science to Define Information Content Requirements for IT Service Catalogs. , 2018, , .		5
53	Maintenance Costs in the Process Industry: A Literature Review. , 2019, , .		5
54	Developing a Framework for Scoping Digital Twins in the Process Manufacturing Industry. Advances in Transdisciplinary Engineering, 2020, , .	0.1	5

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55	The Rulers Factory â€" a tool for learning product modeling techniques. Computers and Industrial Engineering, 1998, 35, 29-32.	6.3	4
56	Succeeding in process standardization. Business Process Management Journal, 2016, 22, 1212-1246.	4.2	4
57	Modelling production system architectures in the early phases of product development. Concurrent Engineering Research and Applications, 2017, 25, 136-150.	3.2	4
58	Why slow down? Factors affecting speed loss in process manufacturing. International Journal of Advanced Manufacturing Technology, 2020, 106, 2021-2034.	3.0	4
59	Implementing a product platform in 35 man-days: the visual thinking approach. International Journal of Mass Customisation, 2008, 2, 240.	1.2	3
60	The cost of customising: assessing the performance of a modular product programme. International Journal of Product Development, 2014, 19, 214.	0.2	3
61	Analysis of visual representation techniques for product configuration systems in industrial companies. , 2016, , .		3
62	Including product features in process redesign. Concurrent Engineering Research and Applications, 2017, 25, 343-359.	3.2	3
63	Differential effects of information technology on competitive positioning. Industrial Management and Data Systems, 2020, 120, 1923-1939.	3.7	3
64	A classification of barriers to product variety reduction. CIRP Journal of Manufacturing Science and Technology, 2021, 35, 517-525.	4.5	3
65	Implementation of product information management systems: Identifying the challenges of the scoping phase. Computers in Industry, 2021, 133, 103533.	9.9	3
66	Identifying profitable reference architectures in an engineer-to-order context. International Journal of Production Research, 0, , 1-15.	7.5	3
67	Design Science Research: A Suitable Approach to Scope and Research IT Service Catalogs. , 2018, , .		2
68	Complexity management in project organisations. Production Engineering, 2021, 15, 361-370.	2.3	2
69	Using a Configuration System to Design Toilets and Place Installation Shafts. Open Construction and Building Technology Journal, 2013, 7, 158-169.	0.7	2
70	Product Wheels for Scheduling in the Baking Industry: A Case Study. International Journal of Production Management and Engineering, 2018, 6, 65.	1.5	2
71	Cost of Not Maintaining a Product Configuration System. International Journal of Industrial Engineering and Management, 2018, 9, 205-214.	2.0	2
72	Development of a Design-Time Estimation Model for Complex Engineering Processes. Advances in Transdisciplinary Engineering, 2019, , .	0.1	2

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73	Industrializing Engineering Work: Challenges Associated with the Implementation of Product Models. , 2007, , .		1
74	Utilizing product configuration systems for supporting the critical parts of the engineering processes. , 2015, , .		1
75	Product configuration system and its impact on product's life cycle complexity. , 2016, , .		1
76	Configuration Lifecycle Management â€“ Future of Product Configurators. , 2018, , .		1
77	A Framework for Multiple Fire Investigation Using Big Data and Statistical Analysis. Journal of Failure Analysis and Prevention, 2021, 21, 890.	0.9	1
78	The Use of Modelling Methods for Product Configuration in Industrial Applications. Lecture Notes in Production Engineering, 2014, , 529-539.	0.4	1
79	Complementing the Scoping Process of Configuration Projects by Design Thinking. Advances in Transdisciplinary Engineering, 2019, , .	0.1	1
80	When reverse supply chain makes financial sense: a study of factors affecting profitability in reverse supply chains. International Journal of Sustainable Engineering, 2022, 15, 35-46.	3.5	1
81	An approach for the development and implementation of commissioning service configurators in engineer-to-order companies. Computers in Industry, 2022, 142, 103717.	9.9	1
82	Alignment of Configuration and Documentation for Highly Engineered Complex Product Configuration Systems: A Demonstration from a Case Study. , 2015, , .		0
83	Development and implementation strategy for the of product configuration systems in engineer-to-order companies. , 2016, , .		0
84	Identification of critical technology building blocks. Concurrent Engineering Research and Applications, 2017, 25, 289-302.	3.2	0
85	Reconfiguring Variety, Profitability, and Postponement for Product Customization with Global Supply Chains. Springer Proceedings in Business and Economics, 2017, , 13-26.	0.3	0
86	Product portfolio optimization based on substitution. , 2017, , .		0
87	Usage frequency of product configuration systems relative to integrations and fields of application. , 2017, , .		0
88	Time Estimation for Product Configuration Systems Projects. , 2018, , .		0
89	A Database Administration Tool to Model the Configuration Projects. , 2018, , .		0
90	Scoping a PIM System: A Supporting Framework. , 2018, , .		0

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91	An Operational Tool to Assess Configuration Lifecycle Maturity. , 2019, , .		0
92	The Concepts of Modularization in ICT Service Modeling. , 2019, , .		0
93	Can Domain Theory Combined with the Resource-Based View Demonstrate the Missing Link in IT Value Creation?. , 2019, , .		0
94	Analyzing the Accuracy of Calculations When Scoping Product Configuration Projects. Lecture Notes in Computer Science, 2012, , 331-342.	1.3	0
95	Goal-Oriented Data Collection Framework in Configuration Projects. Springer Proceedings in Business and Economics, 2017, , 351-365.	0.3	0
96	Complexity Management in Engineer-To-Order Industry: A Design-Time Estimation Model for Engineering Processes. Lecture Notes in Mechanical Engineering, 2022, , 636-644.	0.4	0
97	Configuration Systems Applied to the Healthcare Sector for an Enhanced Prescription Process. Lecture Notes in Mechanical Engineering, 2022, , 827-834.	0.4	0
98	Reduction of Product Portfolio Complexity Based on Process Analysis. Advances in Transdisciplinary Engineering, 2020, , .	0.1	0
99	A procedure for reducing stockâ€“keeping unit variety by linking internal and external product variety. CIRP Journal of Manufacturing Science and Technology, 2022, 37, 344-358.	4.5	0