

Kary FrÃmmling

List of Publications by Year in descending order

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Version: 2024-02-01

98
papers

2,602
citations

279798

23
h-index

214800

47
g-index

102
all docs

102
docs citations

102
times ranked

1832
citing authors

#	ARTICLE	IF	CITATIONS
1	Intelligent Products: A survey. Computers in Industry, 2009, 60, 137-148.	9.9	436
2	A framework for integrating BIM and IoT through open standards. Automation in Construction, 2018, 95, 35-45.	9.8	190
3	Opportunities for enhanced lean construction management using Internet of Things standards. Automation in Construction, 2016, 61, 86-97.	9.8	180
4	Intelligent productsâ€”a step towards a more effective project delivery chain. Computers in Industry, 2003, 50, 141-151.	9.9	170
5	The product centric approach: a solution to supply network information management problems?. Computers in Industry, 2003, 52, 147-159.	9.9	88
6	Sustainable PLM through Intelligent Products. Engineering Applications of Artificial Intelligence, 2013, 26, 789-799.	8.1	82
7	Efficient tracking for short-term multi-company networks. International Journal of Physical Distribution and Logistics Management, 2004, 34, 545-564.	7.4	64
8	Explainable Artificial Intelligence for Human Decision Support System in the Medical Domain. Machine Learning and Knowledge Extraction, 2021, 3, 740-770.	5.0	64
9	Agent-based model for managing composite product information. Computers in Industry, 2006, 57, 72-81.	9.9	63
10	Universal Messaging Standards for the IoT From a Lifecycle Management Perspective. IEEE Internet of Things Journal, 2014, 1, 319-327.	8.7	63
11	Requirements on unique identifiers for managing product lifecycle information: comparison of alternative approaches. International Journal of Computer Integrated Manufacturing, 2007, 20, 715-726.	4.6	59
12	The uses of tracking in operations management: Synthesis of a research program. International Journal of Production Economics, 2010, 126, 267-275.	8.9	50
13	Open IoT Ecosystem for Sporting Event Management. IEEE Access, 2017, 5, 7064-7079.	4.2	50
14	Security in product lifecycle of IoT devices: A survey. Journal of Network and Computer Applications, 2020, 171, 102779.	9.1	49
15	Design patterns for managing product life cycle information. Communications of the ACM, 2007, 50, 75-79.	4.5	46
16	CEFIoT: A fault-tolerant IoT architecture for edge and cloud. , 2018, , .		43
17	Roadmap to tracking based business and intelligent products. Computers in Industry, 2009, 60, 229-233.	9.9	41
18	Open IoT Ecosystem for Enhanced Interoperability in Smart Citiesâ€”Example of MÃ©tropole De Lyon. Sensors, 2017, 17, 2849.	3.8	41

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19	A standardized approach to deal with firewall and mobility policies in the IoT. Pervasive and Mobile Computing, 2015, 20, 100-114.	3.3	36
20	IoTef: A Federated Edge-Cloud Architecture for Fault-Tolerant IoT Applications. Journal of Grid Computing, 2020, 18, 57-80.	3.9	36
21	Enabling through life product-instance management: Solutions and challenges. Journal of Network and Computer Applications, 2011, 34, 1015-1031.	9.1	34
22	Data Exchange Interoperability in IoT Ecosystem for Smart Parking and EV Charging. Sensors, 2018, 18, 4404.	3.8	28
23	Implementing Collaboration Process Networks. International Journal of Logistics Management, 2002, 13, 39-50.	6.6	27
24	Scalable IoT Platform for Heterogeneous Devices in Smart Environments. IEEE Access, 2020, 8, 211973-211985.	4.2	25
25	Group fuzzy AHP approach to embed relevant data on "communicating material". Computers in Industry, 2014, 65, 675-692.	9.9	24
26	Supply chain typology for configuring cost-efficient tracking in fashion logistics. International Journal of Logistics Management, 2015, 26, 42-60.	6.6	24
27	BIM as Infrastructure in a Finnish HVAC Actor Network: Enabling Adoption, Reuse, and Recombination over a Building Life Cycle and between Projects. Journal of Management in Engineering - ASCE, 2015, 31, .	4.8	24
28	P2P Data synchronization for product lifecycle management. Computers in Industry, 2015, 66, 82-98.	9.9	23
29	Enhanced Product Lifecycle Information Management using "communicating materials". CAD Computer Aided Design, 2015, 59, 192-200.	2.7	23
30	RFID tracking in the book supply chain: the transition from postponed to speculative tagging. International Journal of Logistics Research and Applications, 2012, 15, 199-214.	8.8	21
31	IoT-based Smart Parking System for Sporting Event Management. , 2016, , .		21
32	Automated IoT Device Identification Based on Full Packet Information Using Real-Time Network Traffic. Sensors, 2021, 21, 2660.	3.8	21
33	Explanations of Black-Box Model Predictions by Contextual Importance and Utility. Lecture Notes in Computer Science, 2019, , 95-109.	1.3	20
34	Data quality assessment of maintenance reporting procedures. Expert Systems With Applications, 2016, 63, 145-164.	7.6	19
35	IoTopen: Building an IoT Open Innovation Ecosystem for Smart Cities. IEEE Access, 2020, 8, 224318-224342.	4.2	19
36	Integrating material and information flows using a distributed peer-to-peer information system. , 2003, , 305-319.		18

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37	Comparing seven methods for state-of-health time series prediction for the lithium-ion battery packs of forklifts. Applied Soft Computing Journal, 2021, 111, 107670.	7.2	17
38	Explaining Machine Learning-Based Classifications of In-Vivo Gastral Images. , 2019, , .		14
39	A Novel LSTM for Multivariate Time Series with Massive Missingness. Sensors, 2020, 20, 2832.	3.8	14
40	Explainable Artificial Intelligence Based Heat Recycler Fault Detection in Air Handling Unit. Lecture Notes in Computer Science, 2019, , 110-125.	1.3	14
41	Decision Theory Meets Explainable AI. Lecture Notes in Computer Science, 2020, , 57-74.	1.3	14
42	Standardized Communication Between Intelligent Products for the IoT. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 157-162.	0.4	13
43	O-MI/O-DF standards as interoperability enablers for Industrial Internet: A performance analysis. , 2016, , .		13
44	Assessment of EPCIS Standard for Interoperable Tracking in the Supply Chain. Studies in Computational Intelligence, 2013, , 119-134.	0.9	13
45	Implementing inventory transparency to temporary storage locations. International Journal of Managing Projects in Business, 2010, 3, 292-306.	2.5	12
46	Opportunity to Leverage Information-as-an-Asset in the IoT -- The Road Ahead. , 2015, , .		12
47	IoT-based interoperability framework for asset and fleet management. , 2016, , .		12
48	MeDI: Measurement-based Device Identification Framework for Internet of Things. , 2018, , .		12
49	GLOBALLY UNIQUE PRODUCT IDENTIFIERS “ REQUIREMENTS AND SOLUTIONS TO PRODUCT LIFECYCLE MANAGEMENT. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 855-860.	0.4	11
50	Guiding exploration by pre-existing knowledge without modifying reward. Neural Networks, 2007, 20, 736-747.	5.9	11
51	Technological Theory of Cloud Manufacturing. Studies in Computational Intelligence, 2016, , 267-276.	0.9	11
52	Standardized Framework for Integrating Domain-Specific Applications into the IoT. , 2014, , .		10
53	Collaborative tracking and tracing: the value of a composite design. International Journal of Logistics Management, 2014, 25, 522-536.	6.6	9
54	Data supply chain in Industrial Internet. , 2015, , .		9

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55	CN-waterfall: a deep convolutional neural network for multimodal physiological affect detection. <i>Neural Computing and Applications</i> , 2022, 34, 2157-2176.	5.6	9
56	QLM Messaging Standards: Introduction and Comparison with Existing Messaging Protocols. <i>Studies in Computational Intelligence</i> , 2014, , 237-256.	0.9	9
57	Smart Spaces for Ubiquitously Smart Buildings. , 2009, , .		8
58	Supply chain tracking: aligning buyer and supplier incentives. <i>Industrial Management and Data Systems</i> , 2013, 113, 1133-1148.	3.7	8
59	Blockchain-based deployment of product-centric information systems. <i>Computers in Industry</i> , 2021, 125, 103342.	9.9	8
60	Comparison of Contextual Importance and Utility with LIME and Shapley Values. <i>Lecture Notes in Computer Science</i> , 2021, , 39-54.	1.3	8
61	Contextual Importance and Utility: A Theoretical Foundation. <i>Lecture Notes in Computer Science</i> , 2022, , 117-128.	1.3	8
62	Explainable Agents for Less Bias in Human-Agent Decision Making. <i>Lecture Notes in Computer Science</i> , 2020, , 129-146.	1.3	7
63	Open IoT Ecosystem for Smart EV Charging. , 2018, , .		6
64	Heat Recovery Unit Failure Detection in Air Handling Unit. <i>IFIP Advances in Information and Communication Technology</i> , 2018, , 343-350.	0.7	6
65	Access Time Improvement Framework for Standardized IoT Gateways. , 2019, , .		6
66	From tracking with RFID to intelligent products. , 2009, , .		5
67	Authentication and Access Control for Open Messaging Interface Standard. , 2017, , .		5
68	Integration and uses of RF Memory Tags with Smart Space Semantic Web middleware. , 2009, , .		4
69	A Clean Air Journey Planner for pedestrians using high resolution near real time air quality data. , 2020, , .		4
70	One-to-Many Negotiation QoE Management Mechanism for End-User Satisfaction. <i>IEEE Access</i> , 2021, 9, 59231-59243.	4.2	4
71	Assessment of Standards for Inter-organizational Tracking Information Exchange in the Supply Chain. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012, 45, 661-666.	0.4	3
72	Key data quality pitfalls for condition based maintenance. , 2017, , .		3

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73	Exploring Contextual Importance and Utility in Explaining Affect Detection. Lecture Notes in Computer Science, 2021, , 3-18.	1.3	3
74	Building Lifecycle Management System for Enhanced Closed Loop Collaboration. IFIP Advances in Information and Communication Technology, 2016, , 423-432.	0.7	3
75	Proposal of an Interoperability Standard Supporting PLM and Knowledge Sharing. IFIP Advances in Information and Communication Technology, 2013, , 286-293.	0.7	3
76	Metrics and Evaluations of Time Series Explanations: An Application in Affect Computing. IEEE Access, 2022, 10, 23995-24009.	4.2	3
77	Information dissemination framework for context-aware products. Computers and Industrial Engineering, 2013, 66, 485-500.	6.3	2
78	Proposal of a Closed Loop Framework for the Improvement of Industrial Systemsâ€™ Life Cycle Performances: Experiences from the LinkedDesign Project. Procedia CIRP, 2015, 29, 126-131.	1.9	2
79	Data Model Logger - Data Discovery for Extract-Transform-Load. , 2017, , .		2
80	Combined use of lifecycle management and IoT in smart cities. , 2017, , .		2
81	Assessing Explainability in Reinforcement Learning. Lecture Notes in Computer Science, 2021, , 223-240.	1.3	2
82	Product Centric Integration:Exploring The Impact Of RFID And Agent Technology On Supply Chain Management. , 2006, , 565-572.		2
83	An OAuth-based Authentication Mechanism for Open Messaging Interface Standard. , 2020, , .		2
84	A Distributed Software for Collaborative Sales Forecasting. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 109-112.	0.4	1
85	ENRICHING PRODUCT INFORMATION DURING THE PRODUCT LIFECYCLE. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 861-866.	0.4	1
86	Towards data exchange interoperability in building lifecycle management. , 2014, , .		1
87	Peer-to-Peer Data Synchronization Agents. , 2014, , .		1
88	Edge Computing-based Fault-Tolerant Framework: A Case Study on Vehicular Networks. , 2020, , .		1
89	Product Centric Organization of After-Sales Supply Chain Planning and Control. , 2010, , 187-198.		1
90	Instance-Informed Information Systems: A Pre-requisite for Energy-Efficient and Green Information Systems. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 174-185.	0.3	1

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91	Deferred Retrieval of IoT Information Using QLM Messaging Interface. Communications in Computer and Information Science, 2013, , 57-65.	0.5	1
92	Agent-based Business Process Orchestration for IoT. , 2019, , .		1
93	Wireless item identification: a solution for e-commerce fulfilment problems. International Journal of Electronic Business, 2004, 2, 108.	0.4	0
94	Open-Source Demo System to Support Automated Identification and Tracking Workshops. , 2007, , .		0
95	Exploring Numerical Calculations with CalcNet. , 2019, , .		0
96	Visual Explanations for DNNs with Contextual Importance. Lecture Notes in Computer Science, 2021, , 83-96.	1.3	0
97	Two-Way Communications Through Firewalls Using QLM Messaging. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2014, , 743-747.	0.3	0
98	Critical study of the applicability of additional IAQ sensors in older buildings. Intelligent Buildings International, 0, , 1-13.	2.3	0