Kary FrÃ¤mling

List of Publications by Year
in descending order

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	CN-waterfall: a deep convolutional neural network for multimodal physiological affect detection. Neural Computing and Applications, 2022, 34, 2157-2176.	5.6	9
2	Contextual Importance andÂUtility: A Theoretical Foundation. Lecture Notes in Computer Science, 2022, , 117-128.	1.3	8
3	Metrics and Evaluations of Time Series Explanations: An Application in Affect Computing. IEEE Access, 2022, 10, 23995-24009.	4.2	3
4	Visual Explanations for DNNs with Contextual Importance. Lecture Notes in Computer Science, 2021, , 83-96.	1.3	0
5	One-to-Many Negotiation QoE Management Mechanism for End-User Satisfaction. IEEE Access, 2021, 9, 59231-59243.	4.2	4
6	Exploring Contextual Importance and Utility in Explaining Affect Detection. Lecture Notes in Computer Science, 2021, , 3-18.	1.3	3
7	Assessing Explainability in Reinforcement Learning. Lecture Notes in Computer Science, 2021, , 223-240.	1.3	2
8	Blockchain-based deployment of product-centric information systems. Computers in Industry, 2021, 125, 103342.	9.9	8
9	Automated IoT Device Identification Based on Full Packet Information Using Real-Time Network Traffic. Sensors, 2021, 21, 2660.	3.8	21
10	Explainable Artificial Intelligence for Human Decision Support System in the Medical Domain. Machine Learning and Knowledge Extraction, 2021, 3, 740-770.	5.0	64
11	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
12	Comparison of Contextual Importance and Utility with LIME and Shapley Values. Lecture Notes in Computer Science, 2021, , 39-54.	1.3	8
13	A Clean Air Journey Planner for pedestrians using high resolution near real time air quality data. , 2020, , .		4
14	Security in product lifecycle of IoT devices: A survey. Journal of Network and Computer Applications, 2020, 171, 102779.	9.1	49
15	Edge Computing-based Fault-Tolerant Framework: A Case Study on Vehicular Networks. , 2020, , .		1
16	Scalable IoT Platform for Heterogeneous Devices in Smart Environments. IEEE Access, 2020, 8, 211973-211985.	4.2	25
17	bIoTope: Building an IoT Open Innovation Ecosystem for Smart Cities. IEEE Access, 2020, 8, 224318-224342.	4.2	19
18	A Novel LSTM for Multivariate Time Series with Massive Missingness. Sensors, 2020, 20, 2832.	3.8	14

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19	IoTEF: A Federated Edge-Cloud Architecture for Fault-Tolerant IoT Applications. Journal of Grid Computing, 2020, 18, 57-80.	3.9	36
20	Decision Theory Meets Explainable AI. Lecture Notes in Computer Science, 2020, , 57-74.	1.3	14
21	Explainable Agents for Less Bias in Human-Agent Decision Making. Lecture Notes in Computer Science, 2020, , 129-146.	1.3	7
22	An OAuth-based Authentication Mechanism for Open Messaging Interface Standard. , 2020, , .		2
23	Access Time Improvement Framework for Standardized IoT Gateways. , 2019, , .		6
24	Exploring Numerical Calculations with CalcNet. , 2019, , .		0
25	Explaining Machine Learning-Based Classifications of In-Vivo Gastral Images. , 2019, , .		14
26	Explanations of Black-Box Model Predictions by Contextual Importance and Utility. Lecture Notes in Computer Science, 2019, , 95-109.	1.3	20
27	Explainable Artificial Intelligence Based Heat Recycler Fault Detection in Air Handling Unit. Lecture Notes in Computer Science, 2019, , 110-125.	1.3	14
28	Agent-based Business Process Orchestration for IoT. , 2019, , .		1
29	Data Exchange Interoperability in IoT Ecosystem for Smart Parking and EV Charging. Sensors, 2018, 18, 4404.	3.8	28
30	Open IoT Ecosystem for Smart EV Charging. , 2018, , .		6
31	MeDI: Measurement-based Device Identification Framework for Internet of Things. , 2018, , .		12
32	Heat Recovery Unit Failure Detection in Air Handling Unit. IFIP Advances in Information and Communication Technology, 2018, , 343-350.	0.7	6
33	CEFIoT: A fault-tolerant IoT architecture for edge and cloud. , 2018, , .		43
34	A framework for integrating BIM and IoT through open standards. Automation in Construction, 2018, 95, 35-45.	9.8	190
35	Open IoT Ecosystem for Sporting Event Management. IEEE Access, 2017, 5, 7064-7079.	4.2	50
36	Data Model Logger - Data Discovery for Extract-Transform-Load. , 2017, , .		2

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37	Key data quality pitfalls for condition based maintenance. , 2017, , .		3
38	Combined use of lifecycle management and IoT in smart cities. , 2017, , .		2
39	Open IoT Ecosystem for Enhanced Interoperability in Smart Citiesâ€"Example of MÃ©tropole De Lyon. Sensors, 2017, 17, 2849.	3.8	41
40	Authentication and Access Control for Open Messaging Interface Standard. , 2017, , .		5
41	O-MI/O-DF standards as interoperability enablers for Industrial Internet: A performance analysis. , 2016, , .		13
42	IoT-based Smart Parking System for Sporting Event Management. , 2016, , .		21
43	IoT-based interoperability framework for asset and fleet management. , 2016, , .		12
44	Data quality assessment of maintenance reporting procedures. Expert Systems With Applications, 2016, 63, 145-164.	7.6	19
45	Technological Theory of Cloud Manufacturing. Studies in Computational Intelligence, 2016, , 267-276.	0.9	11
46	Opportunities for enhanced lean construction management using Internet of Things standards. Automation in Construction, 2016, 61, 86-97.	9.8	180
47	Building Lifecycle Management System for Enhanced Closed Loop Collaboration. IFIP Advances in Information and Communication Technology, 2016, , 423-432.	0.7	3
48	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
49	Supply chain typology for configuring cost-efficient tracking in fashion logistics. International Journal of Logistics Management, 2015, 26, 42-60.	6.6	24
50	A standardized approach to deal with firewall and mobility policies in the IoT. Pervasive and Mobile Computing, 2015, 20, 100-114.	3.3	36
51	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
52	Opportunity to Leverage Information-as-an-Asset in the IoT -- The Road Ahead. , 2015, , .		12
53	Data supply chain in Industrial Internet. , 2015, , .		9
54	P2P Data synchronization for product lifecycle management. Computers in Industry, 2015, 66, 82-98.	9.9	23

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55	Enhanced Product Lifecycle Information Management using â€œcommunicating materialsâ€• CAD Computer Aided Design, 2015, 59, 192-200.	2.7	23
56	Towards data exchange interoperability in building lifecycle management. , 2014, , .		1
57	Collaborative tracking and tracing: the value of a composite design. International Journal of Logistics Management, 2014, 25, 522-536.	6.6	9
58	Standardized Framework for Integrating Domain-Specific Applications into the IoT. , 2014, , .		10
59	Peer-to-Peer Data Synchronization Agents. , 2014, , .		1
60	Group fuzzy AHP approach to embed relevant data on â€œcommunicating materialâ€• Computers in Industry, 2014, 65, 675-692.	9.9	24
61	Universal Messaging Standards for the IoT From a Lifecycle Management Perspective. IEEE Internet of Things Journal, 2014, 1, 319-327.	8.7	63
62	QLM Messaging Standards: Introduction and Comparison with Existing Messaging Protocols. Studies in Computational Intelligence, 2014, , 237-256.	0.9	9
63	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
64	Information dissemination framework for context-aware products. Computers and Industrial Engineering, 2013, 66, 485-500.	6.3	2
65	Sustainable PLM through Intelligent Products. Engineering Applications of Artificial Intelligence, 2013, 26, 789-799.	8.1	82
66	Supply chain tracking: aligning buyer and supplier incentives. Industrial Management and Data Systems, 2013, 113, 1133-1148.	3.7	8
67	Standardized Communication Between Intelligent Products for the IoT. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 157-162.	0.4	13
68	Assessment of EPCIS Standard for Interoperable Tracking in the Supply Chain. Studies in Computational Intelligence, 2013, , 119-134.	0.9	13
69	Deferred Retrieval of IoT Information Using QLM Messaging Interface. Communications in Computer and Information Science, 2013, , 57-65.	0.5	1
70	Proposal of an Interoperability Standard Supporting PLM and Knowledge Sharing. IFIP Advances in Information and Communication Technology, 2013, , 286-293.	0.7	3
71	Assessment of Standards for Inter-organizational Tracking Information Exchange in the Supply Chain. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 661-666.	0.4	3
72	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

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73	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
74	Enabling through life product-instance management: Solutions and challenges. Journal of Network and Computer Applications, 2011, 34, 1015-1031.	9.1	34
75	Implementing inventory transparency to temporary storage locations. International Journal of Managing Projects in Business, 2010, 3, 292-306.	2.5	12
76	The uses of tracking in operations management: Synthesis of a research program. International Journal of Production Economics, 2010, 126, 267-275.	8.9	50
77	Product Centric Organization of After-Sales Supply Chain Planning and Control. , 2010, , 187-198.		1
78	Integration and uses of RF Memory Tags with Smart Space Semantic Web middleware. , 2009, , .		4
79	Intelligent Products: A survey. Computers in Industry, 2009, 60, 137-148.	9.9	436
80	Roadmap to tracking based business and intelligent products. Computers in Industry, 2009, 60, 229-233.	9.9	41
81	From tracking with RFID to intelligent products. , 2009, , .		5
82	Smart Spaces for Ubiquitously Smart Buildings. , 2009, , .		8
83	Design patterns for managing product life cycle information. Communications of the ACM, 2007, 50, 75-79.	4.5	46
84	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
85	Open-Source Demo System to Support Automated Identification and Tracking Workshops. , 2007, , .		0
86	Guiding exploration by pre-existing knowledge without modifying reward. Neural Networks, 2007, 20, 736-747.	5.9	11
87	ENRICHING PRODUCT INFORMATION DURING THE PRODUCT LIFECYCLE. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 861-866.	0.4	1
88	GLOBALLY UNIQUE PRODUCT IDENTIFIERS â€“ REQUIREMENTS AND SOLUTIONS TO PRODUCT LIFECYCLE MANAGEMENT. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 855-860.	0.4	11
89	Agent-based model for managing composite product information. Computers in Industry, 2006, 57, 72-81.	9.9	63
90	Product Centric Integration:Exploring The Impact Of RFID And Agent Technology On Supply Chain Management. , 2006, , 565-572.		2

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91	Efficient tracking for shortâ€term multiâ€company networks. International Journal of Physical Distribution and Logistics Management, 2004, 34, 545-564.	7.4	64
92	Wireless item identification: a solution for e-commerce fulfilment problems. International Journal of Electronic Business, 2004, 2, 108.	0.4	0
93	Intelligent productsâ€"a step towards a more effective project delivery chain. Computers in Industry, 2003, 50, 141-151.	9.9	170
94	The product centric approach: a solution to supply network information management problems?. Computers in Industry, 2003, 52, 147-159.	9.9	88
95	Integrating material and information flows using a distributed peer-to-peer information system. , 2003, , 305-319.		18
96	Implementing Collaboration Process Networks. International Journal of Logistics Management, 2002, 13, 39-50.	6.6	27
97	A Distributed Software for Collaborative Sales Forecasting. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 109-112.	0.4	1
98	Critical study of the applicability of additional IAQ sensors in older buildings. Intelligent Buildings International, 0, , 1-13.	2.3	0