Ingo M Weber

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4709708/publications.pdf

Version: 2024-02-01

100	3,392	257101	233125
papers	citations	24 h-index	45 g-index

107	107	107	2193
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	BPMN in healthcare: Challenges and best practices. Information Systems, 2022, 107, 102013.	2.4	19
2	Every apprentice needs a master: Feedback-based effectiveness improvements for process model matching. Information Systems, 2021, 95, 101612.	2.4	5
3	Integrated modelâ€driven engineering of blockchain applications for business processes and asset management. Software - Practice and Experience, 2021, 51, 1059-1079.	2.5	34
4	A Method for Debugging Process Discovery Pipelines to Analyze the Consistency of Model Properties. Lecture Notes in Computer Science, 2021, , 65-84.	1.0	1
5	Enabling Financing in Agricultural Supply Chains Through Blockchain. , 2021, , 41-56.		5
6	A Decision Model for Choosing Patterns in Blockchain-Based Applications. , 2021, , .		17
7	Process Mining on Blockchain Data: A Case Study of Augur. Lecture Notes in Computer Science, 2021, , 306-323.	1.0	6
8	Introduction and Background: Blockchain and Smart Contracts. , 2021, , 1-11.		0
9	Runtime verification for business processes utilizing the Bitcoin blockchain. Future Generation Computer Systems, 2020, 107, 816-831.	4.9	84
10	Rollback Mechanisms for Cloud Management APIs Using AI Planning. IEEE Transactions on Dependable and Secure Computing, 2020, 17, 148-161.	3.7	1
11	Quantifying the Cost of Distrust: Comparing Blockchain and Cloud Services for Business Process Execution. Information Systems Frontiers, 2020, 22, 489-507.	4.1	33
12	Discovering process models for the analysis of application failures under uncertainty of event logs. Knowledge-Based Systems, 2020, 189, 105054.	4.0	13
13	Controlled flexibility in blockchain-based collaborative business processes. Information Systems, 2020, 104, 101622.	2.4	29
14	Hyper-parameter optimization in classification: To-do or not-to-do. Pattern Recognition, 2020, 103, 107245.	5.1	24
15	Foundational Oracle Patterns: Connecting Blockchain to the Off-Chain World. Lecture Notes in Business Information Processing, 2020, , 35-51.	0.8	42
16	External Data Monitoring Using Oracles in Blockchain-Based Process Execution. Lecture Notes in Business Information Processing, 2020, , 67-81.	0.8	9
17	Patterns for Blockchain Data Migration. , 2020, , .		13
18	Incentive Alignment of Business Processes. Lecture Notes in Computer Science, 2020, , 93-110.	1.0	1

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19	Business process improvement with the AB-BPM methodology. Information Systems, 2019, 84, 283-298.	2.4	29
20	Digital-Physical Parity for Food Fraud Detection. Lecture Notes in Computer Science, 2019, , 65-79.	1.0	8
21	Blockchain Support for Collaborative Business Processes. Informatik-Spektrum, 2019, 42, 182-190.	1.0	53
22	Dynamic Role Binding in Blockchain-Based Collaborative Business Processes. Lecture Notes in Computer Science, 2019, , 399-414.	1.0	28
23	A Platform Architecture for Multi-Tenant Blockchain-Based Systems. , 2019, , .		31
24	uBaaS: A unified blockchain as a service platform. Future Generation Computer Systems, 2019, 101, 564-575.	4.9	68
25	Caterpillar: A business process execution engine on the Ethereum blockchain. Software - Practice and Experience, 2019, 49, 1162-1193.	2.5	98
26	Architecture for Blockchain Applications. , 2019, , .		150
27	Interpreted Execution of Business Process Models on Blockchain. , 2019, , .		31
28	Modeling and Enforcing Blockchain-Based Choreographies. Lecture Notes in Computer Science, 2019, , 69-85.	1.0	34
29	Mining Blockchain Processes: Extracting Process Mining Data from Blockchain Applications. Lecture Notes in Business Information Processing, 2019, , 71-86.	0.8	24
30	Blockchain and Services â€“ Exploring theÂLinks. Lecture Notes in Business Information Processing, 2019, , 13-21.	0.8	1
31	Optimising Architectures for Performance, Cost, and Security. Lecture Notes in Computer Science, 2019, , 161-177.	1.0	1
32	Blockchains for Business Process Management - Challenges and Opportunities. ACM Transactions on Management Information Systems, 2018, 9, 1-16.	2.1	404
33	Introduction to the Special Issue on Emerging Software Technologies for Internet-Based Systems. ACM Transactions on Internet Technology, 2018, 18, 1-2.	3.0	0
34	Metric selection and anomaly detection for cloud operations using log and metric correlation analysis. Journal of Systems and Software, 2018, 137, 531-549.	3.3	47
35	Contextual anomaly detection for a critical industrial system based on logs and metrics. , 2018, , .		10
36	A Pattern Collection for Blockchain-based Applications. , 2018, , .		80

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37	Shadow Testing for Business Process Improvement. Lecture Notes in Computer Science, 2018, , 153-171.	1.0	4
38	Towards Reliable Predictive Process Monitoring. Lecture Notes in Business Information Processing, 2018, , 163-181.	0.8	7
39	Predicting the Performance of Privacy-Preserving Data Analytics Using Architecture Modelling and Simulation. , 2018, , .		3
40	AB Testing for Process Versions with Contextual Multi-armed Bandit Algorithms. Lecture Notes in Computer Science, 2018, , 19-34.	1.0	1
41	Predicting Latency of Blockchain-Based Systems Using Architectural Modelling and Simulation. , 2017, , .		62
42	A Taxonomy of Blockchain-Based Systems for Architecture Design. , 2017, , .		402
43	Comparing Blockchain and Cloud Services for Business Process Execution. , 2017, , .		52
44	On Availability for Blockchain-Based Systems. , 2017, , .		92
45	Optimized Execution of Business Processes on Blockchain. Lecture Notes in Computer Science, 2017, , 130-146.	1.0	100
46	Analyzing control flow information to improve the effectiveness of process model matching techniques. Decision Support Systems, 2017, 100, 6-14.	3.5	17
47	Behavioral Classification of Business Process Executions at Runtime. Lecture Notes in Business Information Processing, 2017, , 339-353.	0.8	3
48	AB-BPM: Performance-Driven Instance Routing for Business Process Improvement. Lecture Notes in Computer Science, 2017, , 113-129.	1.0	4
49	Developing Dependable and Secure Cloud Applications. IEEE Internet Computing, 2016, 20, 74-79.	3.2	15
50	Untrusted Business Process Monitoring and Execution Using Blockchain. Lecture Notes in Computer Science, 2016, , 329-347.	1.0	279
51	Process-Oriented Non-intrusive Recovery for Sporadic Operations on Cloud. , 2016, , .		1
52	Activity Matching with Human Intelligence. Lecture Notes in Business Information Processing, 2016, , 124-140.	0.8	7
53	Discovering and Visualizing Operations Processes with POD-Discovery and POD-Viz. , 2015, , .		9
54	Experience report: Anomaly detection of cloud application operations using log and cloud metric correlation analysis. , 2015, , .		58

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55	Error Diagnosis of Cloud Application Operation Using Bayesian Networks and Online Optimisation. , 2015, , .		1
56	Scalable Rollback for Cloud Operations Using AI Planning. , 2015, , .		2
57	Four-Fold Auto-Scaling on a Contemporary Deployment Platform Using Docker Containers. Lecture Notes in Computer Science, 2015, , 316-323.	1.0	35
58	Achieving Reliable High-Frequency Releases in Cloud Environments. IEEE Software, 2015, 32, 73-80.	2.1	14
59	Mining processes with multi-instantiation. , 2015, , .		13
60	Elastic Business Process Management: State of the art and open challenges for BPM in the cloud. Future Generation Computer Systems, 2015, 46, 36-50.	4.9	77
61	Optimizing the Performance of Automated Business Processes Executed on Virtualized Infrastructure. , 2014, , .		11
62	POD-Diagnosis: Error Diagnosis of Sporadic Operations on Cloud Applications. , 2014, , .		39
63	Scalable Business Process Execution in the Cloud. , 2014, , .		15
64	Report: The Process Model Matching Contest 2013. Lecture Notes in Business Information Processing, 2014, , 442-463.	0.8	35
65	Web Service Composition. , 2014, , 2389-2399.		2
66	Listen to Me: Improving Process Model Matching through User Feedback. Lecture Notes in Computer Science, 2014, , 84-100.	1.0	17
67	Negotiation and Argumentation in Multi-Agent Systems. , 2014, , .		19
68	Increasing Recall of Process Model Matching by Improved Activity Label Matching. Lecture Notes in Computer Science, 2013, , 211-218.	1.0	44
69	Context-Aware UI Component Reuse. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2013, , 68-83.	0.2	1
70	Eliciting operations requirements for applications. , 2013, , .		10
71	Form-Based Web Service Composition for Domain Experts. ACM Transactions on the Web, 2013, 8, 1-40.	2.0	17
72	Detecting cloud provisioning errors using an annotated process model. , 2013, , .		10

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73	BPMashup: Dynamic Execution of RESTful Processes. Lecture Notes in Computer Science, 2013, , 447-450.	1.0	4
74	Entity-Centric Search for Enterprise Services. Lecture Notes in Computer Science, 2013, , 404-412.	1.0	0
75	On compliance checking for clausal constraints in annotated process models. Information Systems Frontiers, 2012, 14, 155-177.	4.1	45
76	Extending Enterprise Service Design Knowledge Using Clustering. Lecture Notes in Computer Science, 2012, , 142-157.	1.0	1
77	Facilitating Enterprise Service Discovery for Non-technical Business Users. Lecture Notes in Computer Science, 2011, , 100-110.	1.0	3
78	Forms-based Service Composition. Lecture Notes in Computer Science, 2011, , 627-635.	1.0	1
79	Beyond soundness: on the verification of semantic business process models. Distributed and Parallel Databases, 2010, 27, 271-343.	1.0	79
80	FormSys. , 2010, , .		7
81	Managing Long-Tail Processes Using FormSys. Lecture Notes in Computer Science, 2010, , 702-703.	1.0	2
82	Semantic Methods for Execution-level Business Process Modeling. Lecture Notes in Business Information Processing, 2009, , .	0.8	10
83	Composing Services for Third-party Service Delivery. , 2009, , .		7
84	Towards a Methodology for Semantic Business Process Modeling and Configuration. Lecture Notes in Computer Science, 2009, , 176-187.	1.0	10
85	Detecting Regulatory Compliance for Business Process Models through Semantic Annotations. Lecture Notes in Business Information Processing, 2009, , 5-17.	0.8	46
86	Auto-completion for Executable Business Process Models. Lecture Notes in Business Information Processing, 2009, , 510-515.	0.8	16
87	Supporting Execution-Level Business Process Modeling with Semantic Technologies. Lecture Notes in Computer Science, 2009, , 759-763.	1.0	5
88	Towards an Implementation of the EU Services Directive with Semantic Web Services. Lecture Notes in Business Information Processing, 2009, , 217-227.	0.8	3
89	Task Composition. Lecture Notes in Business Information Processing, 2009, , 149-200.	0.8	1
90	Combining Scalability and Expressivity in the Automatic Composition of Semantic Web Services. , 2008, , .		33

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91	Beyond Soundness: On the Semantic Consistency of Executable Process Models. , 2008, , .		11
92	Automated derivation of executable business processes from choreographies in virtual organisations. International Journal of Business Process Integration and Management, 2008, 3, 85.	0.2	26
93	Semantic Annotation and Composition of Business Processes with Maestro. Lecture Notes in Computer Science, 2008, , 772-776.	1.0	17
94	Modelling, Simulation, and Performance Analysis of Business Processes Involving Ubiquitous Systems. Lecture Notes in Computer Science, 2008, , 579-582.	1.0	4
95	Information Gathering for Semantic Service Discovery and Composition in Business Process Modeling. Lecture Notes in Business Information Processing, 2008, , 46-60.	0.8	1
96	Polynomial-Time Reasoning for Semantic Web Service Composition. , 2007, , .		3
97	Requirements for Implementing Business Process Models through Composition of Semantic Web Services. , 2007, , 3-14.		3
98	A Conceptual Framework for Composition in Business Process Management. Lecture Notes in Computer Science, 2007, , 54-66.	1.0	10
99	User-Friendly Semantic Annotation in Business Process Modeling. Lecture Notes in Computer Science, 2007, , 260-271.	1.0	54
100	How do Machine Learning, Robotic Process Automation, and Blockchains Affect the Human Factor in Business Process Management?. Communications of the Association for Information Systems, 0, , 297-320.	0.7	70