Markus Stumptner

List of Publications by Year
in descending order

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79	1,302	471509	414414
papers	citations	17 h-index	32 g-index

88	88	88	634
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Configuring large systems using generative constraint satisfaction. IEEE Intelligent Systems, 1998, 13, 59-68.	0.2	138
2	Consistency-based diagnosis of configurationÂknowledge bases. Artificial Intelligence, 2004, 152, 213-234.	5.8	131
3	Model-based diagnosis of hardware designs. Artificial Intelligence, 1999, 111, 3-39.	5.8	123
4	Behavior-consistent specialization of object life cycles. ACM Transactions on Software Engineering and Methodology, 2002, 11, 92-148.	6.0	96
5	Generative constraint-based configuration of large technical systems. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 1998, 12, 307-320.	1.1	60
6	Configuration knowledge representations for Semantic Web applications. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2003, 17, 31-50.	1.1	59
7	Model-Based Debugging â€“ State of the Art And Future Challenges. Electronic Notes in Theoretical Computer Science, 2007, 174, 61-82.	0.9	45
8	Evaluating Models for Model-Based Debugging. , 2008, , .		42
9	Analysis of business process integration in Web service context. Future Generation Computer Systems, 2007, 23, 283-294.	7.5	39
10	Configuration Knowledge Representation and Reasoning. , 2014, , 41-72.		34
11	Diagnosing tree-structured systemsâ˜†â˜†Part of this work has been published in preliminary form in the Proceedings of the 15th International Joint Conference on Artificial Intelligence (IJCAI-97).. Artificial Intelligence, 2001, 127, 1-29.	5.8	33
12	Formalising natural language specifications using a cognitive linguistic/configuration based approach. Information Systems, 2015, 54, 191-208.	3.6	32
13	Model-Based Debugging or How to Diagnose Programs Automatically. Lecture Notes in Computer Science, 2002, , 746-757.	1.3	32
14	Service Composition with Consistency-Based Matchmaking: A CSP-Based Approach. , 2007, , .		25
15	Behavior Consistent Inheritance in UML. Lecture Notes in Computer Science, 2000, , 527-542.	1.3	25
16	Rule-based peer-to-peer framework for decentralised real-time service oriented architectures. Science of Computer Programming, 2015, 97, 202-234.	1.9	23
17	A conceptual framework for large-scale ecosystem interoperability and industrial product lifecycles. Data and Knowledge Engineering, 2017, 109, 85-111.	3.4	20
18	An integrated multi-level modeling approach for industrial-scale data interoperability. Software and Systems Modeling, 2018, 17, 269-294.	2.7	20

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19	Representing network knowledge using provenance-aware formalisms for cyber-situational awareness. Procedia Computer Science, 2018, 126, 29-38.	2.0	19
20	Certus. Proceedings of the VLDB Endowment, 2019, 12, 653-666.	3.8	17
21	Service Composition as Generative Constraint Satisfaction. , 2009, , .		15
22	Using Big Data to Improve Safety Performance: An Application of Process Mining to Enhance Data Visualisation. Big Data Research, 2021, 25, 100210.	4.2	14
23	VizDSL: A Visual DSL for Interactive Information Visualization. Lecture Notes in Computer Science, 2018, , 440-455.	1.3	13
24	Behavior Based Integration of Composite Business Processes. Lecture Notes in Computer Science, 2005, , 186-204.	1.3	12
25	Automated Reasoning over Provenance-Aware Communication Network Knowledge in Support of Cyber-Situational Awareness. Lecture Notes in Computer Science, 2018, , 132-143.	1.3	12
26	Model-Based Reconfiguration. , 1998, , 45-64.		12
27	Metamodel-Based Information Integration at Industrial Scale. Lecture Notes in Computer Science, 2010, , 153-167.	1.3	11
28	A Conceptual Framework for Large-scale Ecosystem Interoperability. Lecture Notes in Computer Science, 2015, , 287-301.	1.3	10
29	Ontology-Based Process Modelling for Design Optimisation Support. , 2008, , 513-532.		9
30	Locating Bugs in Java Programs â€" First Results of the Java Diagnosis Experiments Project. Lecture Notes in Computer Science, 2000, , 174-183.	1.3	8
31	On the application of software modelling principles on ISO 15926. , 2012, , .		7
32	On-the-Fly Change Propagation for the Co-evolution of Business Processes. Lecture Notes in Computer Science, 2013, , 75-93.	1.3	7
33	Knowledge Engineering for Configuration Systems. , 2014, , 139-155.		6
34	A Survey of Directed Entity-Relation–Based First-Order Probabilistic Languages. ACM Computing Surveys, 2014, 47, 1-40.	23.0	6
35	Change Propagation and Conflict Resolution for the Co-Evolution of Business Processes. International Journal of Cooperative Information Systems, 2015, 24, 1540002.	0.8	6
36	Hierarchical Diagnosis of Large Configurator Knowledge Bases. Lecture Notes in Computer Science, 2001, , 185-197.	1.3	6

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37	DiKe - A Model-Based Diagnosis Kernel and Its Application. Lecture Notes in Computer Science, 2001, , 440-454.	1.3	6
38	Enhancements and Ontological Use of ISO-10303 (STEP) to Support the Exchange of Parameterised Product Data Models. , 2007, , .		5
39	Automated compilation of Object-Oriented Probabilistic Relational Models. International Journal of Approximate Reasoning, 2009, 50, 1369-1398.	3.3	5
40	A declarative framework for work process configuration. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2011, 25, 143-162.	1.1	4
41	Enabling Information Interoperability through Multi-domain Modeling. Lecture Notes in Business Information Processing, 2013, , 16-33.	1.0	4
42	Formalising Natural Language Specifications Using a Cognitive Linguistics/Configuration Based Approach. , 2013, , .		4
43	Design for service compatibility. Software and Systems Modeling, 2013, 12, 489-515.	2.7	4
44	State of the art in knowledge extraction from online polls. , 2016, , .		4
45	Semantic Service Discovery by Consistency-Based Matchmaking. Lecture Notes in Computer Science, 2009, , 492-505.	1.3	4
46	An Integrated Development Environment for The Design And Maintenance of Large Configuration Knowledge Bases. , 2000, , 169-189.		4
47	Configuring Services and Processes. , 2014, , 251-260.		4
48	Using Design Information to Identify Structural Software Faults. Lecture Notes in Computer Science, 2001, , 473-486.	1.3	4
49	Selective inheritance of attribute values in relational databases. Discrete Applied Mathematics, 1992, 40, 187-216.	0.9	3
50	Semantic Web Service Composition by Consistency-Based Model Refinement. , 2007, , .		3
51	Consistent Abstraction of Business Processes Based on Constraints. Journal on Data Semantics, 2015, 4, 59-78.	2.0	3
52	Knowledge Representation of Network Semantics for Reasoning-Powered Cyber-Situational Awareness. Intelligent Systems Reference Library, 2019, , 19-45.	1.2	3
53	Probabilistic Reasoning Techniques for the Tactical Military Domain. Lecture Notes in Computer Science, 2005, , 46-53.	1.3	3
54	Modeling Programs with Unstructured Control Flow for Debugging. Lecture Notes in Computer Science, 2002, , 107-118.	1.3	3

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55	Classification of Business Process Correspondences and Associated Integration Operators. Lecture Notes in Computer Science, 2004, , 653-666.	1.3	3
56	Towards a Reference Architecture for the Co-evolution of Business Processes. , 2014, , .		2
57	Utilising bitemporal information for business process contingency management. , 2016, , .		2
58	Comparing Two Models for Software Debugging. Lecture Notes in Computer Science, 2001, , 351-365.	1.3	2
59	Model Driven Orchestration: Design for Service Compatibility. Lecture Notes in Computer Science, 2010, , 17-31.	1.3	2
60	A Model-Based Tool for Finding Faults in Hardware Designs. , 1996, , 541-559.		2
61	Acquiring Configuration Knowledge Bases in the Semantic Web Using UML. Lecture Notes in Computer Science, 2002, , 352-357.	1.3	2
62	An Architecture for Establishing Legal Semantic Workflows in the Context of Integrated Law Enforcement. Lecture Notes in Computer Science, 2018, , 124-139.	1.3	2
63	On the formal properties of transitive inheritance in databases. Information Sciences, 1992, 66, 63-90.	6.9	1
64	Model-Based Debugging with High-Level Observations. , 2004, , 299-309.		1
65	Analysing an Industrial Safety Process Through Process Mining: A Case Study. Lecture Notes in Mechanical Engineering, 2019, , 491-500.	0.4	1
66	Semantic Interpretation of Requirements through Cognitive Grammar and Configuration. Lecture Notes in Computer Science, 2014, , 496-510.	1.3	1
67	Verification of Business Process Integration Options. Lecture Notes in Computer Science, 2006, , 432-438.	1.3	1
68	Automated Techniques for Generating Behavioural Models for Constructive Combat Simulations. Lecture Notes in Management and Industrial Engineering, 2018, , 103-115.	0.4	1
69	A Prediction Approach to Well Logging. , 2004, , 531-539.		0
70	Intelligent Technology for Well Logging Analysis. , 2004, , 373-382.		0
71	Constraint-based livespaces configuration management. , 2006, , .		0
72	Trustâ€annotated ontology integration using social modelling[*]. Expert Systems, 2008, 25, 237-252.	4.5	0

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73	Knowledge-Intensive Process Modelling in Engineering Design. , 2008, , .		0
74	AI EDAM Special Issue, May 2011, Vol. 25, No. 2: Configuration. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2010, 24, 143-144.	1.1	0
75	Mining MOUCLAS Patterns and Jumping MOUCLAS Patterns to Construct Classifiers. Lecture Notes in Computer Science, 2006, , 118-129.	1.3	0
76	Automating Software Processes. , 2009, , 1059-1068.		0
77	Level-Aware Ecosystem Transformations forÂIndustrial Lifecycle Interoperability. Lecture Notes in Computer Science, 2017, , 173-181.	1.3	0
78	ASMaaS: Automatic Semantic Modeling as a Service. , 2021, , .		0
79	Interoperability in AECO and the oil & gas sectors: object-based standards and systems. Journal of Information Technology in Construction, 2022, 27, 312-334.	2.1	0