Ferhat Khendek

List of Publications by Year
in descending order

Version: 2024-02-01

114	733	840776 11	839539 18
papers	citations	h-index	g-index

124	124	124	462
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Availability in the cloud: State of the art. Journal of Network and Computer Applications, 2016, 60, 54-67.	9.1	67
2	Deploying Microservice Based Applications with Kubernetes: Experiments and Lessons Learned. , 2018, , .		46
3	A novel architecture for Web service composition. Journal of Network and Computer Applications, 2012, 35, 787-802.	9.1	29
4	Microservice Based Architecture: Towards High-Availability for Stateful Applications with Kubernetes. , 2019, , .		27
5	UML Profiles for Real-Time Systems and their Applications.. Journal of Object Technology, 2006, 5, 149.	0.9	27
6	A Kubernetes controller for managing the availability of elastic microservice based stateful applications. Journal of Systems and Software, 2021, 175, 110924.	4.5	22
7	A Presence-Based Architecture for the Integration of the Sensing Capabilities of Wireless Sensor Networks in the IP Multimedia Subsystem. , 2008, , .		19
8	LTS semantics for use case models. , 2009, , .		17
9	Bridging the gap between requirements and design: An approach based on Problem Frames and SysML. Journal of Systems and Software, 2012, 85, 717-745.	4.5	16
10	Compositional Testing of Communication Systems. Lecture Notes in Computer Science, 2006, , 227-244.	1.3	16
11	Merging behavior specifications. Formal Methods in System Design, 1995, 6, 259-293.	0.8	15
12	Practical Extensions for Task Models. , 2007, , 42-55.		15
13	A business model for dynamic composition of telecommunication web services. , 2007, 45, 36-43.		13
14	An Architecture for the Provision of Context-Aware Emergency Services in the IP Multimedia Subsystem. IEEE Vehicular Technology Conference, 2008, , .	0.4	13
15	The design and implementation of architectural components for the integration of the IP multimedia subsystem and wireless sensor networks. , 2010, 48, 42-50.		13
16	Signaling for Multimedia Conferencing in Stand-Alone Mobile Ad Hoc Networks. IEEE Transactions on Mobile Computing, 2009, 8, 991-1005.	5.8	12
17	Deriving an SDL Specification with a Given Architecture from a Set of MSCs. , 1997, , 197-212.		12
18	Time consistency of MSC-2000 specifications. Computer Networks, 2003, 42, 303-322.	5.1	11

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19	A UML-Based Domain Specific Modeling Language for the Availability Management Framework. , 2010, , .		11
20	Comparing redundancy models for high availability middleware. Computing (Vienna/New York), 2014, 96, 975-993.	4.8	11
21	Consistency between Task Models and Use Cases. Lecture Notes in Computer Science, 2008, , 71-88.	1.3	11
22	A Semantics for Timed MSC. Electronic Notes in Theoretical Computer Science, 2002, 65, 85-99.	0.9	9
23	TURTLE-P: a UML profile for the formal validation of critical and distributed systems. Software and Systems Modeling, 2006, 5, 449-466.	2.7	9
24	The Design and Implementation of a Web Service Framework for Individual Nodes in Sinkless Wireless Sensor Networks. Proceedings - International Symposium on Computers and Communications, 2007, , .	0.0	9
25	A network service design and deployment process for NFV systems. , 2016, , .		8
26	Comparison of SPIN and VIS for protocol verification. International Journal on Software Tools for Technology Transfer, 2003, 4, 234-245.	1.9	7
27	Towards a Common Semantic Foundation for Use Cases and Task Models. Electronic Notes in Theoretical Computer Science, 2007, 183, 73-88.	0.9	7
28	Providing Hardware Redundancy for Highly Available Services in Virtualized Environments. , 2014, , .		7
29	Integrating Open SAF High Availability Solution with Open Stack. , 2015, , .		7
30	A UML-based domain specific modeling language for service availability management: Design and experience. Computer Standards and Interfaces, 2016, 44, 63-83.	5.4	7
31	On the Semantic Transparency of Visual Notations: Experiments with UML. Lecture Notes in Computer Science, 2015, , 122-137.	1.3	7
32	Common Semantics for Use Cases and Task Models. Lecture Notes in Computer Science, 2007, , 579-598.	1.3	7
33	Micro Protocol Design: The SNMP Case Study1. Lecture Notes in Computer Science, 2003, , 61-73.	1.3	6
34	From MSC to SDL: Overview and an Application to the Autonomous Shuttle Transport System. Lecture Notes in Computer Science, 2005, , 228-254.	1.3	6
35	The Design and Implementation of a Gateway for IP Multimedia Subsystem/Wireless Sensor Networks Interworking. , 2009, , .		6
36	Partial order semantics for use case and task models. Formal Aspects of Computing, 2011, 23, 307-332.	1.8	6

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37	Use case and task models. ACM Transactions on Software Engineering and Methodology, 2013, 22, 1-31.	6.0	6
38	Towards an Evaluation Framework for Availability Solutions in the Cloud. , 2014, , .		6
39	Refining Timed MSCs. Lecture Notes in Computer Science, 2003, , 234-250.	1.3	6
40	A Model-Driven Process Enactment Approach for Network Service Design. Lecture Notes in Computer Science, 2017, , 99-118.	1.3	6
41	Consistency of UML/SPT Models. Lecture Notes in Computer Science, 2007, , 203-224.	1.3	5
42	Automated Design of Network Services from Network Service Requirements. , 2020, , .		5
43	A Novel Business Model for Web Service Composition. , 2006, , .		4
44	An Architecture for Composing Registries when Ambient Networks Compose. , 2007, , .		4
45	A Novel Session Recovery Mechanism for Cluster-based Signaling Architecture for Conferencing in MANETs. , 2007, , .		4
46	A Formal Model for Generating Integrated Functional and User Interface Test Cases. , 2010, , .		4
47	The design and implementation of architectural components for the integration of the IP multimedia subsystem and wireless actuator networks. , 2011, 49, 138-146.		4
48	Managing application level elasticity and availability. , 2014, , .		4
49	A RESTfull architecture for enabling rapid development and deployment of companion robot applications. , 2014, , .		4
50	Availability and service disruption of network services: From high-level requirements to low-level configuration constraints. Computer Standards and Interfaces, 2022, 80, 103565.	5.4	4
51	Towards a Model Based Approach for Integration Testing. Lecture Notes in Computer Science, 2011, , 106-121.	1.3	4
52	Web Services-Based Architecture for the Interactions between End-User Applications and Sink-Less Wireless Sensor Networks. , 2007, , .		3
53	A cross-layer architecture for signaling in multihop cellular networks. , 2008, 46, 174-182.		3
54	Automatic QoS adaptation for composite web services. , 2008, , .		3

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55	From UML/SPT models to schedulability analysis: approach and a prototype implementation using ATL. Automated Software Engineering, 2009, 16, 387-414.	2.9	3
56	A Tool Suite for the Generation and Validation of Configurations for Software Availability. , 2009, , .		3
57	OpenSAF and VMware from the perspective of high availability. , 2013, , .		3
58	Identification and Selection of Interaction Test Scenarios for Integration Testing. Lecture Notes in Computer Science, 2013, , 16-33.	1.3	3
59	Partial Validation of Configurations at Runtime. , 2015, , .		3
60	Upgrade of the IaaS cloud: Issues and potential solutions in the context of high-availability. , 2015, , .		3
61	Pattern based configuration generation for highly available COTS components based systems. Information and Software Technology, 2016, 74, 143-159.	4.4	3
62	Managing the availability of VNFs with the availability management framework. , 2017, , .		3
63	Comparing Pacemaker with OpenSAF for Availability Management in the Cloud. , 2017, , .		3
64	MAPLE-T: A Tool for Process Enactment with Traceability Support. , 2019, , .		3
65	A Model-Based Approach for the Integration of Configuration Fragments. Lecture Notes in Computer Science, 2015, , 125-136.	1.3	3
66	Requirements Analysis and Modeling with Problem Frames and SysML: A Case Study. Lecture Notes in Computer Science, 2010, , 74-89.	1.3	3
67	A Model-Based Framework for SLA Management and Dynamic Reconfiguration. Lecture Notes in Computer Science, 2015, , 19-26.	1.3	3
68	A Model-Based Approach for User Requirements Decomposition and Component Selection. Advances in Intelligent Systems and Computing, 2015, , 173-202.	0.6	3
69	A Model Traceability Framework for Network Service Management. , 2020, , .		3
70	Timed-Automata Semantics and Analysis of UML/SPT Models with Concurrency. , 2007, , .		2
71	Categorizing and Assembling Web Services in a Composition Framework. , 2008, , .		2
72	Checking Service Instance Protection for AMF Configurations. , 2009, , .		2

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73	A formal description framework and a matchmaking technique for web service composition. International Journal of Web Information Systems, 2010, 6, 24-54.	2.4	2
74	Configuration-Based Service Availability Analysis for Middleware Managed Applications. Lecture Notes in Computer Science, 2013, , 229-248.	1.3	2
75	A DNS protocol - based Service Discovery architecture for disaster response systems. , 2013, , .		2
76	Ontology-based user requirements decomposition for component selection for highly available systems. , 2014, , .		2
77	An architecture for M2M enabled social networks. , 2015, , .		2
78	Semantic weaving of configuration fragments into a consistent system configuration. Information Systems Frontiers, 2016, 18, 891-908.	6.4	2
79	Rolling Upgrade with Dynamic Batch Size for IaaS Cloud. , 2016, , .		2
80	Model Driven Upgrade Campaign Generation for Highly Available Systems. Lecture Notes in Computer Science, 2016, , 148-163.	1.3	2
81	Runtime Adjustment of Configuration Models for Consistency Preservation. , 2016, , .		2
82	Model-Based Test Cases Reuse and Optimization. Advances in Computers, 2019, 113, 47-87.	1.6	2
83	Poster: Re-Testing Configured Instances in the Production Environment - A Method for Reducing the Test Suite. , 2019, , .		2
84	Model-driven process enactment for NFV systems with MAPLE. Software and Systems Modeling, 2020, 19, 1263-1282.	2.7	2
85	A Cross-Layer Design Technique for QoS over Optimized Route in MIP. , 2006, , .		1
86	Using web services for presence-based application development. International Journal of Web and Grid Services, 2006, 2, 167.	0.5	1
87	Cross-Layer Design for Optimizing the Performance of Clusters-Based Application Layer Schemes in Mobile Ad Hoc Networks. , 2007, , .		1
88	Integrating wireless actuation capabilities with the 3GPP IP Multimedia Subsystem for enhanced multimedia services. , 2010, , .		1
89	Enriching Use Cases with CTTs. , 2010, , .		1
90	Implementing OMA RESTful location services in wireless sensor environments. , 2012, , .		1

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91	Bridging the Gap between User Requirements and Configuration Requirements. , 2012, , .		1
92	The design and implementation of OMA restful location services in wireless sensor environments. , 2013, 51, 122-131.		1
93	Ordering Upgrade Changes for Highly Available Component Based Systems. , 2014, , .		1
94	Differentiated QoS for overlay-based disaster response systems. , 2014, , .		1
95	Enhanced Configuration Generation Approach for Highly Available COTS Based Systems. , 2014, , .		1
96	Monitoring service level workload and adapting highly available applications. , 2016, , .		1
97	A Model-Based Approach for Design Time Elasticity Rules Generation. , 2018, , .		1
98	A model-driven approach for the generation of configurations for highly available software systems. Innovations in Systems and Software Engineering, 2018, 14, 273-307.	2.1	1
99	Trigger correlation for dynamic system reconfiguration. , 2018, , .		1
100	Generating Early Design Models from Requirements Analysis Artifacts Using Problem Frames and SysML. Lecture Notes in Computer Science, 2011, , 97-114.	1.3	1
101	Distributed Real-Time Behavioral Requirements Modeling Using Extended UML/SPT. Lecture Notes in Computer Science, 2006, , 34-48.	1.3	1
102	Acceptance Test Optimization. Lecture Notes in Computer Science, 2014, , 158-173.	1.3	1
103	Process Enactment with Traceability Support for NFV Systems. Lecture Notes in Computer Science, 2019, , 116-135.	1.3	1
104	Architecture for the Automation of Live Testing of Cloud Systems. , 2020, , .		1
105	Configuration of Complex Systemsâ€"Maintaining Consistency at Runtime. , 2021, , 199-224.		1
106	Integration of MIP-ROQS optimal path selection and MPLS. , 2007, , .		0
107	Modeling and analysis of value added services using message sequence charts. Journal of Network and Computer Applications, 2008, 31, 338-356.	9.1	0
108	Merging Test Models. , 2013, , .		0

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109	Operating system upgrade in high availability environment. , 2013, , .		0
110	Quality of experience-enabled social networks. , 2014, , .		0
111	Overlay interconnection for end-user applications and wireless sensor networks in MANETs. , 2015, , .		0
112	Upgrade of Highly Available Systems: Formal Methods at the Rescue. , 2017, , .		0
113	Regression Test Suite Reduction for Cloud Systems. , 2020, , .		0
114	Overcoming Complexity: Formal Modeling Techniques at the Rescue. , 0, , 415-429.		0