Farooque Azam

List of Publications by Year
in descending order

122 papers	1,061 citations	566801 15 h-index	525886 27 g-index
125 all docs	125 docs citations	125 times ranked	779 citing authors

#	Article	IF	Citations
1	Integration of Smart Traffic Fog Nodes and Homes through a Model Driven Approach. , 2022, , .		0
2	A Model Driven Framework for Efficient Bandwidth Allocation in Fog Computing Using Priority Algorithm. , 2022, , .		0
3	Seamless Runtime Transformations from Natural Language to Formal Methods â€" A usecase of Z-Notation. , 2022, , .		0
4	Recent Trends in Underwater Wireless Sensor Networks (UWSNs) â€" A Systematic Literature Review. Proceedings of the Institute for System Programming of RAS, 2021, 33, 97-110.	0.1	0
5	A Systematic Review on the Data Interoperability of Application Layer Protocols in Industrial IoT. IEEE Access, 2021, 9, 96528-96545.	2.6	18
6	Extension of Interaction Flow Modeling Language for Geographical Information Systems. , 2021, , .		2
7	A Block-chain Oriented Model Driven Framework for handling Inconsistent Requirements in Global Software Development. , 2021, , .		3
8	A Model-Driven Framework for Early Analysis of Kill Chain Attacks. , 2021, , .		1
9	A Model-Driven Framework for Android Supporting Cross-Platform GUI Development. , 2021, , .		1
10	A Model-Driven Framework for the Prevention of DoS Attacks in Software Defined Networking (SDN). , 2021, , .		1
11	A Model-Driven Framework for Security Labs using Blockchain Methodology. , 2021, , .		4
12	A Model Based Neurorehabilitation (MBN) Framework using Kinect. , 2021, , .		1
13	Reverse Engineering of Object Oriented Systems to ALF. International Journal of Software Engineering and Knowledge Engineering, 2021, 31, 745-774.	0.6	2
14	An Integrated Machine Learning Framework for Effective Prediction of Cardiovascular Diseases. IEEE Access, 2021, 9, 106575-106588.	2.6	43
15	The Applications of Model Driven Architecture (MDA) in Wireless Sensor Networks (WSN): Techniques and Tools. Lecture Notes in Networks and Systems, 2020, , 14-27.	0.5	3
16	A Model-Driven Alarms Framework (MAF) With Mobile Clients Support for Wide-Ranging Industrial Control Systems. IEEE Access, 2020, 8, 174279-174304.	2.6	2
17	A model-driven framework for data-driven applications in serverless cloud computing. PLoS ONE, 2020, 15, e0237317.	1.1	16
18	A Unified Model-Based Framework for the Simplified Execution of Static and Dynamic Assertion-Based Verification. IEEE Access, 2020, 8, 104407-104431.	2.6	30

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19	A Model-Driven Mobile HMI Framework (MMHF) for Industrial Control Systems. IEEE Access, 2020, 8, 10827-10846.	2.6	19
20	A UML Profile for the Service Discovery in the Enterprise Cloud Bus (ECB) Framework. Advances in Intelligent Systems and Computing, 2020, , 269-279.	0.5	1
21	A Natural Language Processing (NLP) Framework for Embedded Systems to Automatically Extract Verification Aspects from Textual Design Requirements. , 2020, , .		7
22	A Novel Framework and Tool for Multi-Purpose Modeling of Physical Infrastructures. , 2020, , .		8
23	A Meta-Model for Regression Testing of Fintech Web Applications. Advances in Intelligent Systems and Computing, 2020, , 3-12.	0.5	0
24	A Multi-purpose Model Driven Platform for Contingency Planning and Shaping Response Measures. Lecture Notes in Computer Science, 2020, , 320-331.	1.0	0
25	A Framework for Automated Reengineering of BPMN Models by Excluding Inefficient Activities. , 2020, , .		2
26	Model Driven Approach for Automatic Script Generation in Stress Testing of Web Applications. , 2020, , .		1
27	Bridging the Gap between Design and Verification of Embedded Systems in Model Based System Engineering. , 2020, , .		0
28	AutoNet: Meta-model for Seamless Integration of Timed Automata and Colored Petri Nets. Lecture Notes in Computer Science, 2020, , 307-319.	1.0	1
29	Multi-objective regression test suite optimization using three variants of adaptive neuro fuzzy inference system. PLoS ONE, 2020, 15, e0242708.	1.1	7
30	Recent Trends in Underwater Wireless Sensor Networks (UWSNs) â€" A Systematic Literature Review. Programming and Computer Software, 2020, 46, 699-711.	0.5	8
31	An Approach of Usability Testing for Web User Interface Through Interaction Flow Modeling Language (IFML) Models. Lecture Notes on Data Engineering and Communications Technologies, 2020, , 552-563.	0.5	0
32	A Model-Driven Framework for Optimum Application Placement in Fog Computing Using a Machine Learning Based Approach. Communications in Computer and Information Science, 2020, , 102-112.	0.4	3
33	A Model-Driven Framework for Ensuring Role Based Access Control in IoT Devices. , 2020, , .		2
34	Formal Requirements Specification. , 2020, , .		2
35	An Investigation of Smart Parking Tools, Technologies, & Challenges. , 2020, , .		0
36	A Comprehensive Investigation of BPMN Models Generation from Textual Requirementsâ€"Techniques, Tools and Trends. Lecture Notes in Electrical Engineering, 2019, , 543-557.	0.3	12

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37	User Identification on Social Networks Through Text Mining Techniques: A Systematic Literature Review. Lecture Notes in Electrical Engineering, 2019, , 485-498.	0.3	1
38	Towards the Selection of Optimum Alarms System in Leading Industry Automation Software. , 2019, , .		3
39	A Novel Framework to Automatically Generate Executable Web Services From BPMN Models. IEEE Access, 2019, 7, 93653-93677.	2.6	10
40	A Comprehensive Investigation of Modern Test Suite Optimization Trends, Tools and Techniques. IEEE Access, 2019, 7, 89093-89117.	2.6	19
41	A Model-driven Approach for Token Based Code Clone Detection Techniques - An Introduction to UMLCCD. , 2019, , .		2
42	A Meta-model For Software Project Change and Configuration Management. , 2019, , .		0
43	A Novel Framework for Change Requirement Management (CRM) In Agile Software Development (ASD). , 2019, , .		6
44	A Model-Driven Approach for Creating Storyboards of Web Based User Interfaces. , 2019, , .		9
45	A UML Profile for Multi-Cloud Service Configuration (UMLPMSC) in Event-driven Serverless Applications. , 2019, , .		5
46	A Systematic Review on Code Clone Detection. IEEE Access, 2019, 7, 86121-86144.	2.6	66
47	A Model Driven Approach for State Management in Mobile Applications. , 2019, , .		1
48	Automated Model-Based Test Case Generation for Web User Interfaces (WUI) From Interaction Flow Modeling Language (IFML) Models. IEEE Access, 2019, 7, 67331-67354.	2.6	26
49	A Novel Approach for Software Requirement Prioritization Based Upon Non Functional Requirements. , 2019, , .		6
50	A Novel Approach for Software Requirement Prioritization. , 2019, , .		3
51	A model-driven framework for design and verification of embedded systems through SystemVerilog. Design Automation for Embedded Systems, 2019, 23, 179-223.	0.7	43
52	A Model Driven Reverse Engineering Framework for Generating High Level UML Models From Java Source Code. IEEE Access, 2019, 7, 158931-158950.	2.6	17
53	A Meta-model for Planning and Execution Activities in Software Project Integration Management. , 2019, , .		0
54	A Novel Framework to Automatically Generate IFML Models From Plain Text Requirements. IEEE Access, 2019, 7, 183489-183513.	2.6	1

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55	A UML Profile for Prediction of Significant Software Requirements. , 2019, , .		0
56	A UML Profile for Software Requirements Prioritization. , 2019, , .		1
57	A Comprehensive Investigation of Formal System Verification Tools and Approaches. Advances in Intelligent Systems and Computing, 2019, , 1245-1255.	0.5	0
58	A Systematic Review of Adaptive and Responsive Design Approaches for World Wide Web. Advances in Intelligent Systems and Computing, 2019, , 704-717.	0.5	1
59	Inferring Social Relationships Through Network: A Systematic Literature Review. Lecture Notes in Electrical Engineering, 2019, , 75-87.	0.3	0
60	UML Profiling for Software Systems in Medical Device Manufacturing. Lecture Notes in Computer Science, 2019, , 265-277.	1.0	0
61	A Model-Driven Approach for Simplified Cluster Based Test Suite Optimization of Industrial Systems â€" An Introduction to UMLTSO. Lecture Notes in Computer Science, 2019, , 152-163.	1.0	0
62	A SYSML-Based Approach for Requirements Risk Management and Change Control. , 2019, , .		1
63	A Systematic Literature Review on Interaction Flow Modeling Language (IFML). , 2018, , .		12
64	Event-Driven Process Chain for Modeling and Verification of Business Requirementsâ€"A Systematic Literature Review. IEEE Access, 2018, 6, 9027-9048.	2.6	40
65	A Novel Method for Inferring Person-to-person Relationship Using Wi-Fi. , 2018, , .		0
66	Implementation of SMART on FHIR in Developing Countries Through SFPBRF. , 2018, , .		4
67	A Framework for User Characterization based on Tweets Using Machine Learning Algorithms. , 2018, , .		4
68	Mobile User Interface Development Techniques: A Systematic Literature Review. , 2018, , .		7
69	Development of User Interface for Multi-platform Applications Using the Model Driven Software Engineering Techniques. , 2018, , .		3
70	Model-Driven Development of Mobile Applications: A Systematic Literature Review. , 2018, , .		10
71	Business Process Models to Web Services Generation: A Systematic Literature Review. , 2018, , .		1
72	A Model-driven Approach for Formal Verification of Embedded Systems Using Timed Colored Petri Nets. , 2018, , .		0

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73	Comparison of Model Checking Tools Using Timed Automata - PRISM and UPPAAL. , 2018, , .		6
74	UMLPACE for Modeling and Verification of Complex Business Requirements in Event-Driven Process Chain (EPC). IEEE Access, 2018, 6, 76198-76216.	2.6	8
75	A Model-Driven Approach for Access Control in Internet of Things (IoT) Applications â€" An Introduction to UMLOA. Communications in Computer and Information Science, 2018, , 198-209.	0.4	7
76	Success Factors of Organizational Change in Software Process Improvement. , 2017, , .		9
77	Model-based design verification for embedded systems through SVOCL: an OCL extension for SystemVerilog. Design Automation for Embedded Systems, 2017, 21, 1-36.	0.7	43
78	A Size Estimation Model for Board-Based Desktop Games. IEEE Access, 2017, 5, 4980-4990.	2.6	6
79	Exploring the Ensemble of Classifiers for Sentimental Analysis. , 2017, , .		2
80	A Novel Approach for Modeling Security Aspects of Physical Infrastructures. , 2017, , .		1
81	A Novel Natural Language Processing (NLP) Approach to Automatically Generate Conceptual Class Model from Initial Software Requirements. Lecture Notes in Electrical Engineering, 2017, , 476-484.	0.3	7
82	A systematic review of requirement traceability techniques and tools. , 2017, , .		18
83	A Systematic Review of Big Data Analytics Using Model Driven Engineering. , 2017, , .		3
84	A Comprehensive Investigation of Model Driven Architecture (MDA) for Reverse Engineering. , 2017, , .		2
85	Verification of Event-Driven Process Chain with Timed Automata and Time Petri Nets. , 2017, , .		3
86	Utility of CK Metrics in Predicting Size of Board-Based Software Games. Mehran University Research Journal of Engineering and Technology, 2017, 36, 975-986.	0.3	1
87	Quality assurance of web services: A systematic literature review. , 2016, , .		3
88	Model-based requirements and properties specifications trends for early design verification of embedded systems. , 2016, , .		17
89	A Majority Voting Goal Based technique for Requirement Prioritization. , 2016, , .		5
90	Evaluation of FED-CASE - A Tool to Convert Class Diagram into Structural Coding. , 2016, , .		0

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91	Expressing embedded systems verification aspects at higher abstraction level â€" SystemVerilog in Object Constraint Language (SVOCL). , 2016, , .		10
92	Hybridization of simulated annealing with genetic algorithm for cell formation problem. International Journal of Advanced Manufacturing Technology, 2016, 86, 2243-2254.	1.5	19
93	Exploring the Platform for Expressing SystemVerilog Assertions in Model Based System Engineering. Lecture Notes in Electrical Engineering, 2016, , 533-544.	0.3	8
94	Model Driven Architecture - Issues, Challenges and Future Directions. Journal of Software, 2016, 11, 924-933.	0.6	6
95	A Comparative Analysis of Software Architecture Evaluation Methods. Journal of Software, 2016, 11, 934-942.	0.6	1
96	Model Driven Upstream and Downstream Artifacts. Procedia Computer Science, 2015, 64, 514-520.	1.2	2
97	A Relation Extraction Framework for Biomedical Text Using Hybrid Feature Set. Computational and Mathematical Methods in Medicine, 2015, 2015, 1-12.	0.7	31
98	Size estimation of open source board-based software games. , 2015, , .		3
99	Software Architecture of a Mobile Robot. , 2015, , .		0
100	Big data: Mathematical topology video data analytics using superimposed learning. , 2015, , .		1
101	TAES-COTS: Thorough Approach for Evaluation &amp; Selection of COTS Products. , 2014, , .		1
102	Analysing and Reducing Risk Factor in 3-C's Model Communication Phase Used in Global Software Development. , 2014, , .		10
103	Detection and classification of retinal lesions for grading of diabetic retinopathy. Computers in Biology and Medicine, 2014, 45, 161-171.	3.9	233
104	Analysis of Cloud Computing Performance, Scalability, Availability, &amp; Security. , 2014, , .		8
105	Proposing a Novel Architecture of Script Component to Incorporate the Scripting Language Support in SCADA Systems. Lecture Notes in Computer Science, 2014, , 351-362.	1.0	3
106	Discovering Core Architecture Classes to Assist Initial Program Comprehension. Lecture Notes in Electrical Engineering, 2013, , 3-10.	0.3	9
107	Domain based analysis of messaging patterns in service-oriented architecture. , 2012, , .		1
108	A Survey of Enterprise Architecture Analysis Using Multi Criteria Decision Making Models (MCDM). Communications in Computer and Information Science, 2011, , 631-637.	0.4	3

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109	Requirement Conflicts Resolution: Using Requirement Filtering and Analysis. Lecture Notes in Computer Science, 2011, , 383-397.	1.0	4
110	An iterative approach for global requirements elicitation: A case study analysis. , 2010, , .		27
111	Back and Forth (BnF) Software Process Model. , 2010, , .		0
112	Integrating value-based requirement engineering models to webml using vip business modeling framework. , 2007, , .		7
113	Measuring Navigational Burden. , 2006, , .		5
114	Towards Generic User Interface for Web Based Systems Serving Similar Functions. , 2006, , .		3
115	Integrating Vip Business Modeling Framework To Uml-Based Web Engineering Approach. , 2006, , .		2
116	Introducing VIP Business Modeling Framework for Innovative, Information-rich and Process-aware E-commerce Web Applications. , 2006, , .		4
117	Higher-Level Information Aspects of Web Systems: Addressing the Problem of Disconnection. Lecture Notes in Computer Science, 2005, , 472-477.	1.0	3
118	Web OPEN-Integrated: Proposed Framework for Web Development. Lecture Notes in Computer Science, 2005, , 533-538.	1.0	2
119	Linking business models and technical architecture of web applications using UML profile. , 0, , .		1
120	System capacity analysis of hybrid direct sequence frequency hopping spread spectrum multiple access communication system. , 0, , .		0
121	Web engineering: a new emerging discipline. , 0, , .		2
122	Using UML profile for connecting information architecture and detailed information design. , 0, , .		0