

Moharram Challenger

List of Publications by Year
in descending order

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77
papers

671
citations

686830
13
h-index

839053
18
g-index

78
all docs

78
docs citations

78
times ranked

298
citing authors

#	ARTICLE	IF	CITATIONS
1	A systematic approach to evaluating domain-specific modeling language environments for multi-agent systems. Software Quality Journal, 2016, 24, 755-795.	1.4	50
2	On the use of a domain-specific modeling language in the development of multiagent systems. Engineering Applications of Artificial Intelligence, 2014, 28, 111-141.	4.3	44
3	IoT based Hand Hygiene Compliance Monitoring. , 2019, , .		30
4	Applying Model Driven Engineering Techniques to the Development of Contiki-Based IoT Systems. , 2019, , .		22
5	Domain-specific modelling language for belief-desire-intention software agents. IET Software, 2018, 12, 356-364.	1.5	21
6	Applications of model-driven engineering in cyber-physical systems: A systematic mapping study. Journal of Computer Languages, 2020, 59, 100972.	1.5	21
7	Development of Semantic Web-Enabled BDI Multi-Agent Systems Using SEA_ML: An Electronic Bartering Case Study. Applied Sciences (Switzerland), 2018, 8, 688.	1.3	20
8	A DSL for the development of software agents working within a semantic web environment. Computer Science and Information Systems, 2013, 10, 1525-1556.	0.7	19
9	The Formal Semantics of a Domain-Specific Modeling Language for Semantic Web Enabled Multi-Agent Systems. International Journal of Cooperative Information Systems, 2014, 23, 1450005.	0.6	18
10	Declarative specifications for the development of multi-agent systems. Computer Standards and Interfaces, 2016, 43, 91-115.	3.8	18
11	DSML4CP: A Domain-specific Modeling Language for Concurrent Programming. Computer Languages, Systems and Structures, 2015, 44, 319-341.	1.4	17
12	An IoT based smart thermostat. , 2018, , .		17
13	Multi-paradigm modeling for cyber-physical systems: A systematic mapping review. Journal of Systems and Software, 2022, 183, 111081.	3.3	17
14	Wireless sensor network based fire detection system for libraries. , 2017, , .		16
15	Model-Driven Engineering Tools and Languages for Cyber-Physical Systems-A Systematic Literature Review. IEEE Access, 2021, 9, 48605-48630.	2.6	16
16	Engineering Multi-Agent Systems. Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 2019, 44, 18-28.	0.5	16
17	Design and implementation of a multiagent stock trading system. Software - Practice and Experience, 2012, 42, 1247-1273.	2.5	14
18	ContikiOS based library fire detection system. , 2018, , .		14

#	ARTICLE	IF	CITATIONS
19	Towards a DSML for semantic web enabled multi-agent systems. , 2010, , .		13
20	Platform-specific Modeling for RIOT based IoT Systems. , 2020, , .		13
21	Tarski. , 2017, , .		12
22	Development of an agent based e-barter system. , 2011, , .		11
23	AgentDSM-Eval: A framework for the evaluation of domain-specific modeling languages for multi-agent systems. Computer Standards and Interfaces, 2021, 76, 103513.	3.8	11
24	A Domain Specific Metamodel for Semantic Web Enabled Multi-Agent Systems. Lecture Notes in Business Information Processing, 2011, , 177-186.	0.8	11
25	An android-based IoT system for vehicle monitoring and diagnostic. , 2018, , .		10
26	A Cloud and Contiki based Fire Detection System using Multi-Hop Wireless Sensor Networks. , 2018, , .		10
27	Regular Expression Based Test Sequence Generation for HDL Program Validation. , 2018, , .		10
28	Software Agent-based Multi-Robot Development: A Case Study. , 2021, , .		10
29	PINC: Pickup Non-Critical Node Based k-Connectivity Restoration in Wireless Sensor Networks. Sensors, 2021, 21, 6418.	2.1	10
30	Agent-based cyber-physical system development with SEA_ML++. , 2021, , 195-219.		10
31	A model-driven approach to machine learning and software modeling for the IoT. Software and Systems Modeling, 2022, 21, 987-1014.	2.2	10
32	Random Test Generation from Regular Expressions for Graphical User Interface (GUI) Testing. , 2019, , .		9
33	Model-driven round-trip engineering for TinyOS-based WSN applications. Journal of Computer Languages, 2021, 65, 101051.	1.5	8
34	Supporting the platform extensibility for the model-driven development of agent systems by the interoperability between domain-specific modeling languages of multi-agent systems. Computer Science and Information Systems, 2017, 14, 875-912.	0.7	8
35	Model-driven Development for ESP-based IoT Systems. , 2021, , .		7
36	Towards employing ABM and MAS integrated with MBSE for the lifecycle of sCPSoS. , 2020, , .		7

#	ARTICLE	IF	CITATIONS
37	FTG+PM for the Model-Driven Development of Wireless Sensor Network based IoT Systems. , 2021, , .		7
38	A Smart Home Agriculture System Based on Internet of Things. , 2021, , .		6
39	An Agent-based Cyber-Physical Production System using Lego Technology. , 0, , .		6
40	Towards Applying Fuzzy Systems in Intelligent Agent-based CPS: A Case Study. , 2021, , .		6
41	FTG+PM: Describing Engineering Processes in Multi-Paradigm Modelling. , 2020, , 259-271.		6
42	A Hybrid Distributed Mutual Exclusion Algorithm for Cluster-Based Systems. Mathematical Problems in Engineering, 2013, 2013, 1-15.	0.6	5
43	Improving the Usability of a MAS DSML. Lecture Notes in Computer Science, 2019, , 55-75.	1.0	4
44	Challenges for Automation in Adaptive Abstraction. , 2019, , .		4
45	Model-Based Ideal Testing of GUI Programsâ€“Approach and Case Studies. IEEE Access, 2021, 9, 68966-68984.	2.6	4
46	Models in Graphical User Interface Testing: Study Design. , 2020, , .		4
47	Knowledge Base Development and Application Processes Applied on Product-Assembly Co-design. , 2021, , .		4
48	Self-Stabilizing Capacitated Vertex Cover Algorithms for Internet-of-Things-Enabled Wireless Sensor Networks. Sensors, 2022, 22, 3774.	2.1	4
49	Enhancing BDI Agents Using Fuzzy Logic for CPS and IoT Interoperability Using the JaCa Platform. Symmetry, 2022, 14, 1447.	1.1	4
50	Refactoring Legacy Software for Layer Separation. International Journal of Software Engineering and Knowledge Engineering, 2021, 31, 217-247.	0.6	3
51	Community Detection in Model-based Testing to Address Scalability: Study Design. , 0, , .		3
52	Enhancing Occupants Comfort and Well-being through a Smart Office setup. , 2020, , .		3
53	Modeling the Engineering Process of an Agent-based Production System: An Exemplar Study. , 2021, , .		3
54	Engineering a BDI agent-based semantic e-barter system. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
55	An Event-based Approach on Automatic Synchronous-to-Asynchronous Transformation of Web Service Invocations. , 2019, , .		2
56	Development of an IoT and WSN based CPS using MPM approach: a smart fire detection case study. , 2021, , 245-270.		2
57	Design and Implementation of Asset Tracking System based on Internet of Things. , 2021, , .		2
58	RE4TinyOS: A Reverse Engineering Methodology for the MDE of TinyOS Applications. , 0, , .		2
59	Performance Evaluation of Capacitated Vertex Cover Algorithms for Security Applications in Wireless Sensor Networks. , 2021, , .		2
60	Improving the Deployment of WSNs by Localized Detection of Covered Redundant Nodes in Industry 4.0 Applications. Sensors, 2022, 22, 942.	2.1	2
61	Categorization of the Models Based on Structural Information Extraction and Machine Learning. Lecture Notes in Networks and Systems, 2022, , 173-181.	0.5	2
62	Deployment of Software Agents and Application of Fuzzy Controller on the UWB Localization Based Mobile Robots. Lecture Notes in Networks and Systems, 2022, , 98-105.	0.5	2
63	A reliable optimization on distributed mutual exclusion algorithm. , 2006, , .		1
64	The Semantics of the Interaction between Agents and Web Services on the Semantic Web. , 2012, , .		1
65	Connectivity Maintenance in IoT-based Mobile Networks: Approaches and Challenges. , 0, , .		1
66	Interoperability of MAS DSMLs via horizontal model transformations. , 0, , .		1
67	An Architecture and Reference Implementation for WSN-Based IoT Systems. Advances in Web Technologies and Engineering Book Series, 2022, , 80-103.	0.4	1
68	Enhancing Autonomous Guided Robots using Software Agents and UWB Technology. , 2022, , .		1
69	Agent based implementation of a Robot Arm and Smart Production Line using Jade Framework. , 2022, , .		1
70	An Extended Heuristic Algorithm to Settle Reacting Objects on a Planar Surface. Mathematical and Computational Applications, 2011, 16, 279-289.	0.7	0
71	The GMF-based syntax tool of a DSML for the semantic web enabled multi-agent systems. , 2011, , .		0
72	Analyzing the Robustness of Web Service Networks. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
73	Automatic Re-modularization of Clustered Codes Considering Invocation Types. , 2021, , .		0
74	A Metamodel and Graphical Syntax for NS-2 Programing. International Journal of Computer Applications Technology and Research, 2014, 3, 626-633.	0.1	0
75	Model-based ideal testing of hardware description language (HDL) programs. Software and Systems Modeling, 0, , 1.	2.2	0
76	Preface to the 3rd Multi-Paradigm Modeling for Cyber-Physical Systems (MPM4CPS 2021). , 2021, , .		0
77	ML-Quadrat & DriotData: A Model-Driven Engineering Tool and a Low-Code Platform for Smart IoT Services. , 2022, , .		0