James Bret Michael

List of Publications by Year
in descending order

49 papers	267 citations

1163117

8 h-index

1058476

14 g-index

| 49 all docs | 49 docs citations | 49 times ranked | 141 citing authors |

#	Article	IF	Citations
1	Lightweight Verification and Validation of Cyberphysical Systems Using Machine-Learned Correctness Properties. Computer, 2022, 55, 102-108.	1.1	1
2	Developing and Deploying Artificial Intelligence Systems. Computer, 2022, 55, 15-17.	1.1	0
3	Placing Trust in Automated Software Development Processes. Computer, 2022, 55, 78-81.	1.1	0
4	Improving the Trustworthiness of Software Through Rigorous Data Type Design. Computer, 2021, 54, 89-95.	1.1	1
5	Perspectives on the SolarWinds Incident. IEEE Security and Privacy, 2021, 19, 7-13.	1.2	38
6	An Attack Vector Taxonomy for Mobile Telephony Security Vulnerabilities. Computer, 2021, 54, 76-84.	1.1	2
7	Hackathons 101. Computer, 2021, 54, 65-69.	1.1	2
8	Enhancing Cybersecurity via Artificial Intelligence: Risks, Rewards, and Frameworks. Computer, 2021, 54, 64-71.	1.1	6
9	Security and Privacy for Edge Artificial Intelligence. IEEE Security and Privacy, 2021, 19, 4-7.	1.2	3
10	Multiagent Pathfinding Under Rigid, Optimization, and Uncertainty Constraints. Computer, 2021, 54, 111-118.	1.1	2
11	Lessons Learned From Applying the NIST Privacy Framework. IT Professional, 2021, 23, 9-13.	1.5	2
12	Struggling With Supply-Chain Security. Computer, 2021, 54, 98-104.	1.1	1
13	Defensive AI: The Future Is Yesterday. Computer, 2021, 54, 90-96.	1.1	3
14	Formal Verification of Cyberphysical Systems. Computer, 2021, 54, 15-24.	1.1	3
15	Formal Methods in Cyberphysical Systems. Computer, 2021, 54, 25-29.	1.1	5
16	Algorithms, Algorithms, Algorithms. Computer, 2020, 53, 13-15.	1.1	1
17	Open Questions in Formal Methods. Computer, 2020, 53, 81-84.	1.1	18
18	Practical Aspects of Employing Antireverse Engineering. IT Professional, 2020, 22, 11-13.	1.5	0

#	Article	IF	Citations
19	Cyberthreats in 2025. Computer, 2020, 53, 16-27.	1.1	0
20	The Promise of Interactive Shared Augmented Reality. Computer, 2020, 53, 45-52.	1.1	8
21	Obtaining Trust in Executable Derivatives Using Crowdsourced Critiques With Blind Signatures. Computer, 2020, 53, 51-56.	1.1	1
22	Security or Privacy: Can You Have Both?. Computer, 2020, 53, 20-30.	1.1	4
23	Security Through Simplicity: A Case Study in Logical Segmentation Inference. Computer, 2019, 52, 76-79.	1.1	0
24	Trustworthiness of Autonomous Machines in Armed Conflict. IEEE Security and Privacy, 2019, 17, 4-6.	1.2	1
25	Assessing the Trustworthiness of Electronic Systems. Computer, 2019, 52, 80-83.	1.1	1
26	Trusted Computing: An Elusive Goal. Computer, 2015, 48, 99-101.	1.1	4
27	End-to-End Formal Specification, Validation, and Verification Process: A Case Study of Space Flight Software. IEEE Systems Journal, 2013, 7, 632-641.	4.6	3
28	Does Security Trump Reliability?. Computer, 2013, 46, 84-86.	1.1	0
29	Atomic-Level Security for Web Applications in a Cloud Environment. Computer, 2012, 45, 80-83.	1.1	6
30	Cloud Computing Support for Collaboration and Communication in Enterprise-Wide Workflow Processes. , 2011, , .		1
31	Formal validation and verification of space flight software using statechart-assertions and runtime execution monitoring. , 2011, , .		6
32	Putting order into the cloud: Object-oriented UML-based enforcement for document and application organization. , 2011, , .		2
33	Flow-Specific Medium Access for Networked Satellite System. IEEE Systems Journal, 2011, 5, 427-434.	4.6	4
34	Verification and Validation for Trustworthy Software Systems. IEEE Software, 2011, 28, 86-92.	1.8	16
35	Rapid runtime system verification using automatic source code instrumentation. , 2011, , .		1
36	Hazard Analysis and Validation Metrics Framework for System of Systems Software Safety. IEEE Systems Journal, 2010, 4, 186-197.	4.6	11

#	Article	IF	Citations
37	Computer-assisted validation and verification of cybersecurity requirements. , 2010, , .		0
38	Cloud Computing for Large-Scale Weapon Systems. , 2010, , .		4
39	Removing the Boundaries: Steps Toward a Cloud Nirvana. , 2010, , .		6
40	Independent validation of software safety requirements for systems of systems. , 2010, , .		4
41	Architectural Patterns and Auto-Fusion Process for Automated Multisensor Fusion in SOA System-of-Systems. IEEE Systems Journal, 2009, 3, 304-316.	4.6	16
42	Passive Fingerprinting of Network Reconnaissance Tools. Computer, 2009, 42, 91-93.	1.1	2
43	A framework for computer-aided validation. Innovations in Systems and Software Engineering, 2008, 4, 161-168.	2.1	8
44	A Visual Tradeoff Space for Formal Verification and Validation Techniques. IEEE Systems Journal, 2008, 2, 513-519.	4.6	18
45	Interface hazard analysis for system of systems. , 2008, , .		16
46	Validating UML Statechart-Based Assertions Libraries for Improved Reliability and Assurance. , 2008, , .		14
47	Environment behavior models for automation of testing and assessment of system safety. Information and Software Technology, 2006, 48, 971-980.	4.4	18
48	SPUTERS: An Integrated Traffic Surveillance and Emergency Response Architecture. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2005, 9, 11-22.	4.2	4
49	Lessons Learned from a Review of Evaluations of Automated Highway Systems. Transportation Research Record, 1999, 1679, 126-129.	1.9	0