

Mohammad Abdullah Al Faruque

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

98
papers

1,249
citations

18
h-index

30
g-index

106
ext. papers

1,610
ext. citations

4.1
avg, IF

5.44
L-index

#	Paper	IF	Citations
98	Energy Management-as-a-Service Over Fog Computing Platform. <i>IEEE Internet of Things Journal</i> , 2016 , 3, 161-169	10.7	192
97	KCAD 2016 ,		46
96	Extended Range Electric Vehicle With Driving Behavior Estimation in Energy Management. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 2959-2968	10.7	46
95	Acoustic Side-Channel Attacks on Additive Manufacturing Systems 2016 ,		45
94	Automotive CyberPhysical Systems: A Tutorial Introduction. <i>IEEE Design and Test</i> , 2016 , 33, 92-108	1.4	41
93	Security trends and advances in manufacturing systems in the era of industry 4.0 2017 ,		40
92	Battery lifetime-aware automotive climate control for electric vehicles 2015 ,		36
91	Runtime Thermal Management Using Software Agents for Multi- and Many-Core Architectures. <i>IEEE Design and Test of Computers</i> , 2010 , 27, 58-68		35
90	Manufacturing Supply Chain and Product Lifecycle Security in the Era of Industry 4.0. <i>Journal of Hardware and Systems Security</i> , 2018 , 2, 51-68	1.6	32
89	2014 ,		30
88	Context-sensitive synthesis of executable functional models of cyber-physical systems 2013 ,		30
87	Side Channels of Cyber-Physical Systems: Case Study in Additive Manufacturing. <i>IEEE Design and Test</i> , 2017 , 34, 18-25	1.4	23
86	A Security Perspective on Battery Systems of the Internet of Things. <i>Journal of Hardware and Systems Security</i> , 2017 , 1, 188-199	1.6	22
85	Physical Layer Cryptographic Key Generation by Exploiting PMD of an Optical Fiber Link. <i>Journal of Lightwave Technology</i> , 2018 , 36, 5903-5911	4	22
84	Functional Model-Based Design Methodology for Automotive Cyber-Physical Systems. <i>IEEE Systems Journal</i> , 2017 , 11, 2028-2039	4.3	21
83	Design Space Exploration for the Profitability of a Rule-Based Aggregator Business Model Within a Residential Microgrid. <i>IEEE Transactions on Smart Grid</i> , 2015 , 6, 1167-1175	10.7	21
82	Exploiting Wireless Channel Randomness to Generate Keys for Automotive Cyber-Physical System Security 2016 ,		18

81	2015,		18
80	Security Challenges of Networked Control Systems. <i>Studies in Systems, Decision and Control</i> , 2018 , 77-95	0.8	16
79	Information Leakage-Aware Computer-Aided Cyber-Physical Manufacturing. <i>IEEE Transactions on Information Forensics and Security</i> , 2018 , 13, 2333-2344	8	16
78	QUILT 2019,		16
77	. <i>IEEE Access</i> , 2020 , 8, 27218-27231	3.5	15
76	Physical Layer Key Generation. <i>ACM Transactions on Cyber-Physical Systems</i> , 2019 , 3, 1-26	2.3	14
75	Aging-Aware Workload Management on Embedded GPU Under Process Variation. <i>IEEE Transactions on Computers</i> , 2018 , 67, 920-933	2.5	13
74	GridMat: Matlab toolbox for GridLAB-D to analyze grid impact and validate residential microgrid level energy management algorithms 2014,		13
73	AdNoC: Runtime Adaptive Network-on-Chip Architecture. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2012 , 20, 257-269	2.6	13
72	HEAR: Fog-Enabled Energy-Aware Online Human Eating Activity Recognition. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 860-868	10.7	13
71	Confidentiality Breach Through Acoustic Side-Channel in Cyber-Physical Additive Manufacturing Systems. <i>ACM Transactions on Cyber-Physical Systems</i> , 2018 , 2, 1-25	2.3	12
70	Eco-Friendly Automotive Climate Control and Navigation System for Electric Vehicles 2016,		12
69	Cross-domain security of cyber-physical systems 2017,		11
68	Battery-aware energy-optimal Electric Vehicle driving management 2015,		11
67	Design methodologies for securing cyber-physical systems 2015,		11
66	Security of Emergent Automotive Systems: A Tutorial Introduction and Perspectives on Practice. <i>IEEE Design and Test</i> , 2019 , 36, 10-38	1.4	10
65	Models, abstractions, and architectures 2015,		10
64	Energy management as a service over fog computing platform 2015,		10

63	Security and privacy challenges in IoT-based machine-to-machine collaborative scenarios 2016,		10
62	RAMP: Impact of rule based aggregator business model for residential microgrid of prosumers including distributed energy resources 2014,		10
61	Extensibility in Automotive Security 2017,		10
60	Functional modeling compiler for system-level design of automotive cyber-physical systems 2014,		10
59	Managing residential-level EV charging using network-as-automation platform (NAP) technology 2012,		10
58	Home energy management as a service over networking platforms 2015,		9
57	GAN-Sec: Generative Adversarial Network Modeling for the Security Analysis of Cyber-Physical Production Systems 2019,		9
56	Low-overhead Aging-aware Resource Management on Embedded GPUs 2017,		9
55	Minimizing Virtual Channel Buffer for Routers in On-chip Communication Architectures 2008,		9
54	Run-time adaptive on-chip communication scheme. <i>IEEE/ACM International Conference on Computer-Aided Design, Digest of Technical Papers, 2007,</i>		9
53	QoS-supported On-chip Communication for Multi-processors. <i>International Journal of Parallel Programming, 2008, 36, 114-139</i>	1.5	9
52	Bounded arbitration algorithm for QoS-supported on-chip communication 2006,		9
51	Energy-efficient Real-time Myocardial Infarction Detection on Wearable Devices. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2020, 2020, 4648-4651</i>	0.9	9
50	Wireless Qi-powered, Multinodal and Multisensory Body Area Network for Mobile Health. <i>IEEE Internet of Things Journal, 2021, 8, 7600-7609</i>	10.7	9
49	Modeling, analysis, and optimization of Electric Vehicle HVAC systems 2016,		8
48	Design and Analysis of Battery-Aware Automotive Climate Control for Electric Vehicles. <i>Transactions on Embedded Computing Systems, 2018, 17, 1-22</i>	1.8	8
47	Polarization Mode Dispersion-Based Physical Layer Key Generation for Optical Fiber Link Security 2017,		8
46	Run-Time Scheduling Framework for Event-Driven Applications on a GPU-Based Embedded System. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2016, 35, 1956-1967</i>	2.5	8

45	Fix the leak! an information leakage aware secured cyber-physical manufacturing system 2017 ,		7
44	. <i>IEEE Embedded Systems Letters</i> , 2014 , 6, 21-24	1	7
43	Electric Vehicle Optimized Charge and Drive Management. <i>ACM Transactions on Design Automation of Electronic Systems</i> , 2017 , 23, 1-25	1.5	7
42	Modeling and simulation of cyberattacks for resilient cyber-physical systems 2017 ,		7
41	AHAR: Adaptive CNN for Energy-efficient Human Activity Recognition in Low-power Edge Devices. <i>IEEE Internet of Things Journal</i> , 2022 , 1-1	10.7	7
40	2019 ,		6
39	Hierarchical Temporal Memory Based Machine Learning for Real-Time, Unsupervised Anomaly Detection in Smart Grid: WiP Abstract 2020 ,		6
38	Brain-Inspired Golden Chip Free Hardware Trojan Detection. <i>IEEE Transactions on Information Forensics and Security</i> , 2021 , 16, 2697-2708	8	6
37	GPU-EvR: Run-time event based real-time scheduling framework on GPGPU platform 2014 ,		5
36	OTEM: Optimized Thermal and Energy Management for Hybrid Electrical Energy Storage in Electric Vehicles 2016 ,		5
35	GPU-EvR: Run-time event based real-time scheduling framework on GPGPU platform 2014 ,		5
34	Scene-Graph Augmented Data-Driven Risk Assessment of Autonomous Vehicle Decisions. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 1-11	6.1	5
33	. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 7980-7990	11.9	5
32	GPU Architecture Aware Instruction Scheduling for Improving Soft-Error Reliability. <i>IEEE Transactions on Multi-Scale Computing Systems</i> , 2017 , 3, 86-99		4
31	Poster Abstract: Thermal Side-Channel Forensics in Additive Manufacturing Systems 2016 ,		4
30	Path to Eco-Driving: Electric Vehicle HVAC and Route Joint Optimization. <i>IEEE Design and Test</i> , 2018 , 35, 8-15	1.4	4
29	NeuroNoC 2010 ,		4
28	Graph Learning for Cognitive Digital Twins in Manufacturing Systems. <i>IEEE Transactions on Emerging Topics in Computing</i> , 2021 , 1-1	4.1	4

27	Control-as-a-Service in Cyber-Physical Energy Systems over Fog Computing 2018 , 123-144		4
26	Tool of Spies: Leaking your IP by Altering the 3D Printer Compiler. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2021 , 18, 667-678	3.9	4
25	Multi-disciplinary integrated design automation tool for automotive cyber-physical systems 2014 ,		3
24	Hierarchical Temporal Memory based One-pass Learning for Real-Time Anomaly Detection and Simultaneous Data Prediction in Smart Grids. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2020 , 1-1	3.9	3
23	Channel State Information-Based Cryptographic Key Generation for Intelligent Transportation Systems. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020 , 1-12	6.1	3
22	Security analysis for fixed-time traffic control systems. <i>Transportation Research Part B: Methodological</i> , 2020 , 139, 473-495	7.2	3
21	HTnet: Transfer Learning for Golden Chip-Free Hardware Trojan Detection 2021 ,		3
20	Survey of Low-Power Electric Vehicles: A Design Automation Perspective. <i>IEEE Design and Test</i> , 2018 , 35, 44-70	1.4	3
19	Maintaining the Design Intent in the Synthesis of 3-D and 1-D System Models Using Constraints. <i>IEEE Systems Journal</i> , 2018 , 12, 1108-1117	4.3	2
18	A Survivability-Aware Cyber-Physical Systems Design Methodology 2019 ,		2
17	Driving behavior modeling and estimation for battery optimization in electric vehicles 2017 ,		2
16	Multi-disciplinary integrated design automation tool for automotive cyber-physical systems 2014 ,		2
15	Spatio-Temporal Scene-Graph Embedding for Autonomous Vehicle Collision Prediction. <i>IEEE Internet of Things Journal</i> , 2022 , 1-1	10.7	2
14	Eve, You Shall Not Get Access! A Cyber-Physical Blockchain Architecture for Electronic Toll Collection Security 2020 ,		2
13	A Physical Layer Security Key Generation Technique for Inter-Vehicular Visible Light Communication 2017 ,		2
12	SAGE: A Split-Architecture Methodology for Efficient End-to-End Autonomous Vehicle Control. <i>Transactions on Embedded Computing Systems</i> , 2021 , 20, 1-22	1.8	2
11	Feature Augmented Hybrid CNN for Stress Recognition Using Wrist-based Photoplethysmography Sensor. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2021 , 2021, 2374-2377	0.9	2
10	Compartmentalisation-based design automation method for power grid. <i>IET Cyber-Physical Systems: Theory and Applications</i> , 2017 , 2, 20-27	2.5	1

9	Application-Specific Residential Microgrid Design Methodology. <i>ACM Transactions on Design Automation of Electronic Systems</i> , 2017 , 22, 1-21	1.5	1
8	Data-Driven Modeling of Cyber-Physical Systems using Side-Channel Analysis 2020 ,		1
7	ACQUA: Adaptive and cooperative quality-aware control for automotive cyber-physical systems 2017 ,		1
6	roadscene2vec: A tool for extracting and embedding road scene-graphs. <i>Knowledge-Based Systems</i> , 2022 , 108245	7.3	1
5	. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	1
4	Guest Editors Introduction: Secure Automotive Systems. <i>IEEE Design and Test</i> , 2019 , 36, 5-6	1.4	1
3	Stealing Neural Network Structure Through Remote FPGA Side-Channel Analysis. <i>IEEE Transactions on Information Forensics and Security</i> , 2021 , 16, 4377-4388	8	1
2	Attack Modeling Methodology and Taxonomy for Intelligent Transportation Systems. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 1-10	6.1	0
1	Report of the Fourth International Workshop on Design Automation for Cyber-Physical Systems (DACPS) 2019. <i>IEEE Design and Test</i> , 2019 , 36, 84-85	1.4	