

Mohammad Abdullah Al Faruque

List of Publications by Year in Descending Order

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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	Spatio-Temporal Scene-Graph Embedding for Autonomous Vehicle Collision Prediction. <i>IEEE Internet of Things Journal</i> , 2022 , 1-1	10.7	2
97	roadscene2vec: A tool for extracting and embedding road scene-graphs. <i>Knowledge-Based Systems</i> , 2022 , 108245	7.3	1
96	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
95	Attack Modeling Methodology and Taxonomy for Intelligent Transportation Systems. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 1-10	6.1	0
94	. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	1
93	Graph Learning for Cognitive Digital Twins in Manufacturing Systems. <i>IEEE Transactions on Emerging Topics in Computing</i> , 2021 , 1-1	4.1	4
92	Wireless Qi-powered, Multinodal and Multisensory Body Area Network for Mobile Health. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 7600-7609	10.7	9
91	HEAR: Fog-Enabled Energy-Aware Online Human Eating Activity Recognition. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 860-868	10.7	13
90	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
89	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
88	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
87	HTnet: Transfer Learning for Golden Chip-Free Hardware Trojan Detection 2021 ,		3
86	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
85	. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 7980-7990	11.9	5
84	Brain-Inspired Golden Chip Free Hardware Trojan Detection. <i>IEEE Transactions on Information Forensics and Security</i> , 2021 , 16, 2697-2708	8	6
83	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
82	Hierarchical Temporal Memory Based Machine Learning for Real-Time, Unsupervised Anomaly Detection in Smart Grid: WiP Abstract 2020 ,		6

81	Data-Driven Modeling of Cyber-Physical Systems using Side-Channel Analysis 2020 ,		1
80	. <i>IEEE Access</i> , 2020 , 8, 27218-27231	3.5	15
79	Eve, You Shall Not Get Access! A Cyber-Physical Blockchain Architecture for Electronic Toll Collection Security 2020 ,		2
78	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
77	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</i> , 2020 , 2020, 4648-4651	0.9	9
76	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
75	Security analysis for fixed-time traffic control systems. <i>Transportation Research Part B: Methodological</i> , 2020 , 139, 473-495	7.2	3
74	2019 ,		6
73	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
72	GAN-Sec: Generative Adversarial Network Modeling for the Security Analysis of Cyber-Physical Production Systems 2019 ,		9
71	QUILT 2019 ,		16
70	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	
69	A Survivability-Aware Cyber-Physical Systems Design Methodology 2019 ,		2
68	Guest Editors Introduction: Secure Automotive Systems. <i>IEEE Design and Test</i> , 2019 , 36, 5-6	1.4	1
67	Physical Layer Key Generation. <i>ACM Transactions on Cyber-Physical Systems</i> , 2019 , 3, 1-26	2.3	14
66	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
65	Security Challenges of Networked Control Systems. <i>Studies in Systems, Decision and Control</i> , 2018 , 77-95	0.8	16
64	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

63	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
62	Aging-Aware Workload Management on Embedded GPU Under Process Variation. <i>IEEE Transactions on Computers</i> , 2018 , 67, 920-933	2.5	13
61	Information Leakage-Aware Computer-Aided Cyber-Physical Manufacturing. <i>IEEE Transactions on Information Forensics and Security</i> , 2018 , 13, 2333-2344	8	16
60	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
59	Design and Analysis of Battery-Aware Automotive Climate Control for Electric Vehicles. <i>Transactions on Embedded Computing Systems</i> , 2018 , 17, 1-22	1.8	8
58	Path to Eco-Driving: Electric Vehicle HVAC and Route Joint Optimization. <i>IEEE Design and Test</i> , 2018 , 35, 8-15	1.4	4
57	Control-as-a-Service in Cyber-Physical Energy Systems over Fog Computing 2018 , 123-144		4
56	Survey of Low-Power Electric Vehicles: A Design Automation Perspective. <i>IEEE Design and Test</i> , 2018 , 35, 44-70	1.4	3
55	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
54	Functional Model-Based Design Methodology for Automotive Cyber-Physical Systems. <i>IEEE Systems Journal</i> , 2017 , 11, 2028-2039	4.3	21
53	Cross-domain security of cyber-physical systems 2017 ,		11
52	GPU Architecture Aware Instruction Scheduling for Improving Soft-Error Reliability. <i>IEEE Transactions on Multi-Scale Computing Systems</i> , 2017 , 3, 86-99		4
51	Compartmentalisation-based design automation method for power grid. <i>IET Cyber-Physical Systems: Theory and Applications</i> , 2017 , 2, 20-27	2.5	1
50	Application-Specific Residential Microgrid Design Methodology. <i>ACM Transactions on Design Automation of Electronic Systems</i> , 2017 , 22, 1-21	1.5	1
49	Fix the leak! an information leakage aware secured cyber-physical manufacturing system 2017 ,		7
48	Side Channels of Cyber-Physical Systems: Case Study in Additive Manufacturing. <i>IEEE Design and Test</i> , 2017 , 34, 18-25	1.4	23
47	Low-overhead Aging-aware Resource Management on Embedded GPUs 2017 ,		9
46	Security trends and advances in manufacturing systems in the era of industry 4.0 2017 ,		40

45	Electric Vehicle Optimized Charge and Drive Management. <i>ACM Transactions on Design Automation of Electronic Systems</i> , 2017 , 23, 1-25	1.5	7
44	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
43	Modeling and simulation of cyberattacks for resilient cyber-physical systems 2017 ,		7
42	Driving behavior modeling and estimation for battery optimization in electric vehicles 2017 ,		2
41	ACQUA: Adaptive and cooperative quality-aware control for automotive cyber-physical systems 2017 ,		1
40	Extensibility in Automotive Security 2017 ,		10
39	Polarization Mode Dispersion-Based Physical Layer Key Generation for Optical Fiber Link Security 2017 ,		8
38	A Physical Layer Security Key Generation Technique for Inter-Vehicular Visible Light Communication 2017 ,		2
37	Energy Management-as-a-Service Over Fog Computing Platform. <i>IEEE Internet of Things Journal</i> , 2016 , 3, 161-169	10.7	192
36	Security and privacy challenges in IoT-based machine-to-machine collaborative scenarios 2016 ,		10
35	Eco-Friendly Automotive Climate Control and Navigation System for Electric Vehicles 2016 ,		12
34	Exploiting Wireless Channel Randomness to Generate Keys for Automotive Cyber-Physical System Security 2016 ,		18
33	Poster Abstract: Thermal Side-Channel Forensics in Additive Manufacturing Systems 2016 ,		4
32	Modeling, analysis, and optimization of Electric Vehicle HVAC systems 2016 ,		8
31	OTEM: Optimized Thermal and Energy Management for Hybrid Electrical Energy Storage in Electric Vehicles 2016 ,		5
30	KCAD 2016 ,		46
29	Automotive CyberPhysical Systems: A Tutorial Introduction. <i>IEEE Design and Test</i> , 2016 , 33, 92-108	1.4	41
28	Acoustic Side-Channel Attacks on Additive Manufacturing Systems 2016 ,		45

27	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</i> , 2016 , 35, 1956-1967	2.5	8
26	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
25	Models, abstractions, and architectures 2015 ,		10
24	Home energy management as a service over networking platforms 2015 ,		9
23	Energy management as a service over fog computing platform 2015 ,		10
22	Battery lifetime-aware automotive climate control for electric vehicles 2015 ,		36
21	Battery-aware energy-optimal Electric Vehicle driving management 2015 ,		11
20	2015 ,		18
19	Design methodologies for securing cyber-physical systems 2015 ,		11
18	2014 ,		30
17	RAMP: Impact of rule based aggregator business model for residential microgrid of prosumers including distributed energy resources 2014 ,		10
16	. <i>IEEE Embedded Systems Letters</i> , 2014 , 6, 21-24	1	7
15	GridMat: Matlab toolbox for GridLAB-D to analyze grid impact and validate residential microgrid level energy management algorithms 2014 ,		13
14	Multi-disciplinary integrated design automation tool for automotive cyber-physical systems 2014 ,		3
13	Functional modeling compiler for system-level design of automotive cyber-physical systems 2014 ,		10
12	Multi-disciplinary integrated design automation tool for automotive cyber-physical systems 2014 ,		2
11	GPU-EvR: Run-time event based real-time scheduling framework on GPGPU platform 2014 ,		5
10	GPU-EvR: Run-time event based real-time scheduling framework on GPGPU platform 2014 ,		5

9	Context-sensitive synthesis of executable functional models of cyber-physical systems 2013 ,		30
8	Managing residential-level EV charging using network-as-automation platform (NAP) technology 2012 ,		10
7	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
6	NeuroNoC 2010 ,		4
5	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
4	Minimizing Virtual Channel Buffer for Routers in On-chip Communication Architectures 2008 ,		9
3	QoS-supported On-chip Communication for Multi-processors. <i>International Journal of Parallel Programming</i> , 2008 , 36, 114-139	1.5	9
2	Run-time adaptive on-chip communication scheme. <i>IEEE/ACM International Conference on Computer-Aided Design, Digest of Technical Papers</i> , 2007 ,		9
1	Bounded arbitration algorithm for QoS-supported on-chip communication 2006 ,		9