Marilyn Wolf

List of Publications by Year
in descending order

33	455	933447 10	839539 18
papers	citations	h-index	g-index

34	34	34	496
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Safety and Security in Cyber-Physical Systems and Internet-of-Things Systems. Proceedings of the IEEE, 2018, 106, 9-20.	21.3	174
2	Internet-of-Things (IoT) Systems. , 2018, , .		52
3	CAMEL Dataset for Visual and Thermal Infrared Multiple Object Detection and Tracking. , 2018, , .		31
4	Task-Driven RGB-Lidar Fusion for Object Tracking in Resource-Efficient Autonomous System. IEEE Transactions on Intelligent Vehicles, 2022, 7, 102-112.	12.7	24
5	Detecting Moving Objects Using a Camera on a Moving Platform. , 2010, , .		18
6	Hardware/Software Codesign of Aerospace and Automotive Systems. Proceedings of the IEEE, 2010, 98, 584-602.	21.3	13
7	CAMEL: An Adaptive Camera With Embedded Machine Learning-Based Sensor Parameter Control. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2019, 9, 498-508.	3.6	13
8	Improving the Safety and Security of Wide-Area Cyberâ€“Physical Systems Through a Resource-Aware, Service-Oriented Development Methodology. Proceedings of the IEEE, 2018, 106, 144-159.	21.3	12
9	Towards a Distributed, Service-Oriented Control Infrastructure for Smart Grid. , 2011, , .		11
10	Modeling and Analysis of Image Dependence and Its Implications for Energy Savings in Error Tolerant Image Processing. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2011, 30, 1163-1172.	2.7	11
11	Model-Driven Performance Analysis of Large Scale Irrigation Networks. , 2012, , .		11
12	Embedded Intelligence in the Internet-of-Things. IEEE Design and Test, 2020, 37, 7-27.	1.2	11
13	Attention-Based Activation Pruning to Reduce Data Movement in Real-Time AI: A Case-Study on Local Motion Planning in Autonomous Vehicles. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2020, 10, 306-319.	3.6	11
14	System-Level Energy Optimization for Error-Tolerant Image Compression. IEEE Embedded Systems Letters, 2010, 2, 81-84.	1.9	10
15	Challenges and Opportunities in VLSI IoT Devices and Systems. IEEE Design and Test, 2019, 36, 24-30.	1.2	10
16	A Train Station Surveillance System: Challenges and Solutions. , 2014, , .		8
17	Ultralow Power and the New Era of Not-So-VLSI. IEEE Design and Test, 2016, 33, 109-113.	1.2	7
18	Closed-loop Approach to Perception in Autonomous System. , 2021, , .		4

#	Article	IF	Citations
19	Introspective Closed-Loop Perception for Energy-efficient Sensors. , 2021, , .		4
20	The Physics of Event-Driven IoT Systems. IEEE Design and Test, 2017, 34, 87-90.	1.2	3
21	Reconfigurable Digital Channelizer Design Using Factored Markov Decision Processes. Journal of Signal Processing Systems, 2018, 90, 1329-1343.	2.1	3
22	A Task-Driven Feedback Imager with Uncertainty Driven Hybrid Control. Sensors, 2021, 21, 2610.	3.8	3
23	Dynamic Multi-vehicle Detection and Tracking from a Moving Platform. , 2013, , .		2
24	IoT Devices. , 2018, , 17-23.		2
25	MADS: A Framework for Design and Implementation of Adaptive Digital Predistortion Systems. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2019, 9, 712-722.	3.6	2
26	Achieving Resiliency and Behavior Assurance in Autonomous Navigation: An Industry Perspective. Proceedings of the IEEE, 2020, 108, 1196-1207.	21.3	2
27	Power and Thermal Modeling for Communication Systems. , 2016, , .		1
28	Guest Editorsâ€™ Introduction: Embedded Intelligence in the Internet-of-Things. IEEE Design and Test, 2020, 37, 5-6.	1.2	1
29	Distributed Data Analysis and Reliable Operation of Cyberphysical Systems. Computer, 2020, 53, 14-15.	1.1	1
30	Low energy process variation tolerant digital image processing system design based on accuracy-energy tradeoffs. , 2011, , .		0
31	Guest Editorsâ€™ Introduction: Circuits and Systems for VLSI IoT Devices. IEEE Design and Test, 2019, 36, 5-5.	1.2	0
32	Report on First and Second ACM/IEEE Workshop on Machine Learning for CAD (MLCAD). IEEE Design and Test, 2021, 38, 97-99.	1.2	0
33	Computing for Autonomy: Latency, Power, Resilience. Computer, 2021, 54, 22-23.	1.1	0