Amir Aminifar

List of Publications by Year
in descending order

44 papers	754 citations	933447 10 h-index	839539 18 g-index
45 all docs	45 docs citations	45 times ranked	564 citing authors

#	Article	IF	Citations
1	Online Obstructive Sleep Apnea Detection on Medical Wearable Sensors. IEEE Transactions on Biomedical Circuits and Systems, 2018, 12, 762-773.	4.0	92
2	Real-Time Event-Driven Classification Technique for Early Detection and Prevention of Myocardial Infarction on Wearable Systems. IEEE Transactions on Biomedical Circuits and Systems, 2018, 12, 982-992.	4.0	65
3	e-Glass: A Wearable System for Real-Time Detection of Epileptic Seizures. , 2018, , .		57
4	Stability-aware integrated routing and scheduling for control applications in Ethernet networks. , 2018, , .		43
5	Personalized Real-Time Federated Learning for Epileptic Seizure Detection. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 898-909.	6.3	40
6	Schedulability analysis of Ethernet AVB switches. , 2014, , .		38
7	Multi-Modal Acute Stress Recognition Using Off-the-Shelf Wearable Devices. , 2019, 2019, 2196-2201.		30
8	Resource-Aware Distributed Epilepsy Monitoring Using Self-Awareness From Edge to Cloud. IEEE Transactions on Biomedical Circuits and Systems, 2019, 13, 1338-1350.	4.0	30
9	EpilepsyGAN: Synthetic Epileptic Brain Activities With Privacy Preservation. IEEE Transactions on Biomedical Engineering, 2021, 68, 2435-2446.	4.2	27
10	A Self-Aware Epilepsy Monitoring System for Real-Time Epileptic Seizure Detection. Mobile Networks and Applications, 2022, 27, 677-690.	3.3	26
11	Designing High-Quality Embedded Control Systems with Guaranteed Stability. , 2012, , .		24
12	Real-time classification technique for early detection and prevention of myocardial infarction on wearable devices. , 2017, , .		23
13	Self-Aware Wearable Systems in Epileptic Seizure Detection. , 2018, , .		22
14	Robust Epileptic Seizure Detection on Wearable Systems with Reduced False-Alarm Rate. , 2020, 2020, 4248-4251.		20
15	Control-Quality Driven Design of Cyber-Physical Systems with Robustness Guarantees. , 2013, , .		16
16	Optimization of Message Encryption for Real-Time Applications in Embedded Systems. IEEE Transactions on Computers, 2018, 67, 748-754.	3.4	15
17	A Self-Learning Methodology for Epileptic Seizure Detection with Minimally-Supervised Edge Labeling. , 2019, , .		14
18	Security-aware Routing and Scheduling for Control Applications on EthernetÂTSN Networks. ACM Transactions on Design Automation of Electronic Systems, 2020, 25, 1-26.	2.6	13

#	ARTICLE	IF	CITATIONS
19	Real-Time EEG-Based Cognitive Workload Monitoring on Wearable Devices. IEEE Transactions on Biomedical Engineering, 2022, 69, 265-277.	4.2	13
20	Designing Bandwidth-Efficient Stabilizing Control Servers. , 2013, , .		12
21	Stability-aware analysis and design of embedded control systems. , 2013, , .		10
22	Self-Triggered Controllers and Hard Real-Time Guarantees. , 2016, , .		10
23	Analysis and Design of Real-Time Servers for Control Applications. IEEE Transactions on Computers, 2016, 65, 834-846.	3.4	9
24	Jfair: a scheduling algorithm to stabilize control applications. , 2015, , .		8
25	Self-Aware Machine Learning for Multimodal Workload Monitoring during Manual Labor on Edge Wearable Sensors. IEEE Design and Test, 2020, 37, 58-66.	1.2	8
26	A Hierarchical Cardiac Rhythm Classification Methodology Based on Electrocardiogram Fiducial Points. , 0, , .		7
27	A Patient-Specific Methodology for Prediction of Paroxysmal Atrial Fibrillation Onset. , 2017, , .		7
28	Breaking Silos to Guarantee Control Stability with Communication over Ethernet TSN. IEEE Design and Test, 2021, 38, 48-56.	1.2	7
29	Noise-Resilient and Interpretable Epileptic Seizure Detection. , 2020, , .		6
30	Butterfly Attack: Adversarial Manipulation of Temporal Properties of Cyber-Physical Systems. , 2019, , .		6
31	Control-Quality Driven Task Mapping for Distributed Embedded Control Systems. , 2011, , .		5
32	Control-Quality-Driven Design of Embedded Control Systems with Stability Guarantees. IEEE Design and Test, 2018, 35, 38-46.	1.2	5
33	Minimal Adversarial Perturbations in Mobile Health Applications: The Epileptic Brain Activity Case Study. , 2020, , .		5
34	Universal Adversarial Perturbations in Epileptic Seizure Detection. , 2020, , .		5
35	Personalized seizure signature: An interpretable approach to false alarm reduction for long‐term epileptic seizure detection. Epilepsia, 2023, 64, .	5.1	5
36	Event-Triggered Sensing for High-Quality and Low-Power Cardiovascular Monitoring Systems. IEEE Design and Test, 2020, 37, 85-93.	1.2	4

#	Article	IF	Citations
37	Intrusion-Damage Assessment and Mitigation in Cyber-Physical Systems for Control Applications. , 2016, , .		3
38	Real-Time Personalized Atrial Fibrillation Prediction on Multi-Core Wearable Sensors. IEEE Transactions on Emerging Topics in Computing, 2021, 9, 1654-1666.	4.6	3
39	Self-Aware Anomaly-Detection for Epilepsy Monitoring on Low-Power Wearable Electrocardiographic Devices. , 2021, , .		2
40	Intelligent Edge Biomedical Sensors inÂthe Internet of Things (IoT) Era. Computer Architecture and Design Methodologies, 2023, , 407-433.	0.8	2
41	Self-triggered controllers, resource sharing, and hard guarantees. , 2016, , .		1
42	Anomalies in scheduling control applications and design complexity. , 2017, , .		1
43	Bandwidth-efficient controller-server co-design with stability guarantees. , 2014, , .		0
44	Secure Cloud Control Using Verifiable Computation. , 2021, , .		0