

Qixin Wang

List of Publications by Year in descending order

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50
papers

959
citations

759055

12
h-index

794469

19
g-index

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all docs

50
docs citations

50
times ranked

985
citing authors

#	ARTICLE	IF	CITATIONS
1	Cyber-Physical Systems: A New Frontier. , 2008, , .		194
2	Cyber-Physical Systems: A New Frontier. , 2009, , 3-13.		104
3	I-Living: An Open System Architecture for Assisted Living. , 2006, , .		61
4	Toward online hybrid systems model checking of cyber-physical systems' time-bounded short-run behavior. ACM SIGBED Review, 2011, 8, 7-10.	1.8	44
5	WiCop: Engineering WiFi Temporal White-Spaces for Safe Operations of Wireless Body Area Networks in Medical Applications. , 2011, , .		39
6	CPS Oriented Control Design for Networked Surveillance Robots With Multiple Physical Constraints. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2016, 35, 778-791.	1.9	38
7	Distributed reconfigurable Battery System Management Architectures. , 2016, , .		34
8	From Offline toward Real Time: A Hybrid Systems Model Checking and CPS Codesign Approach for Medical Device Plug-and-Play Collaborations. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 642-652.	4.0	32
9	Optimal real-time sampling rate assignment for wireless sensor networks. ACM Transactions on Sensor Networks, 2006, 2, 263-295.	2.3	26
10	ORTEGA: An Efficient and Flexible Online Fault Tolerance Architecture for Real-Time Control Systems. IEEE Transactions on Industrial Informatics, 2008, 4, 213-224.	7.2	26
11	WiCop: Engineering WiFi Temporal White-Spaces for Safe Operations of Wireless Personal Area Networks in Medical Applications. IEEE Transactions on Mobile Computing, 2014, 13, 1145-1158.	3.9	24
12	Reconfigurable Battery Systems. ACM Transactions on Design Automation of Electronic Systems, 2019, 24, 1-27.	1.9	23
13	Lightning: A Hard Real-Time, Fast, and Lightweight Low-End Wireless Sensor Election Protocol for Acoustic Event Localization. IEEE Transactions on Mobile Computing, 2008, 7, 570-584.	3.9	22
14	From Offline toward Real-Time: A Hybrid Systems Model Checking and CPS Co-design Approach for Medical Device Plug-and-Play (MDPnP). , 2012, , .		22
15	PAS: A Wireless-Enabled, Sensor-Integrated Personal Assistance System for Independent and Assisted Living. , 2007, , .		21
16	A Switch Design for Real-Time Industrial Networks. , 2008, , .		20
17	A Real-Time Flash Translation Layer for NAND Flash Memory Storage Systems. IEEE Transactions on Multi-Scale Computing Systems, 2016, 2, 17-29.	2.5	20
18	Toward Robust Relay Placement in 60GHz mmWave Wireless Personal Area Networks with Directional Antenna. IEEE Transactions on Mobile Computing, 2016, 15, 762-773.	3.9	20

#	ARTICLE	IF	CITATIONS
19	Adapting a Main-Stream Internet Switch Architecture for Multihop Real-Time Industrial Networks. IEEE Transactions on Industrial Informatics, 2010, 6, 393-404.	7.2	15
20	Design of a crossbar VOQ real-time switch with clock-driven scheduling for a guaranteed delay bound. Real-Time Systems, 2013, 49, 117-135.	1.1	15
21	A System Identification Based Oracle for Control-CPS Software Fault Localization. , 2019, , .		15
22	Optimal QoS sampling frequency assignment for real-time wireless sensor networks. , 0, , .		12
23	Building Robust Wireless LAN for Industrial Control with the DSSS-CDMA Cell Phone Network Paradigm. IEEE Transactions on Mobile Computing, 2007, 6, 706-719.	3.9	12
24	Medical-Grade Quality of Service for Real-Time Mobile Healthcare. Computer, 2015, 48, 41-49.	1.2	11
25	A Multi-Quadcopter Cooperative Cyber-Physical System for Timely Air Pollution Localization. Transactions on Embedded Computing Systems, 2017, 16, 1-23.	2.1	11
26	ORTEGA: An Efficient and Flexible Software Fault Tolerance Architecture for Real-Time Control Systems. , 2008, , .		10
27	Guaranteeing Proper-Temporal-Embedding safety rules in wireless CPS: A hybrid formal modeling approach. , 2013, , .		9
28	A Lease Based Hybrid Design Pattern for Proper-Temporal-Embedding of Wireless CPS Interlocking. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 2630-2642.	4.0	9
29	Evaluating the IEEE 802.15.6 2.4GHz WBAN Proposal on Medical Multi-Parameter Monitoring under WiFi/Bluetooth Interference. International Journal of E-Health and Medical Communications, 2011, 2, 48-62.	1.4	8
30	Timing Performance Control in Web Server Systems Utilizing Server Internal State Information. , 2005, , .		7
31	Building Reliable MD PnP Systems. , 2007, , .		7
32	A real-time multicast routing scheme for multi-hop switched fieldbuses. , 2011, , .		6
33	Analysis of TDMA crossbar real-time switch design for AFDX networks. , 2012, , .		6
34	Building Robust Wireless LAN for Industrial Control with DSSS-CDMA Cellphone Network Paradigm. , 0, , .		5
35	Inter-cell Channel Time-Slot Scheduling for Multichannel Multiradio Cellular Fieldbuses. , 2015, , .		5
36	Ard-mu-Copter: A Simple Open Source Quadcopter Platform. , 2015, , .		4

#	ARTICLE	IF	CITATIONS
37	Efficient and balanced charging of reconfigurable battery with variable power supply. , 2017, , .		4
38	Lightning: A Fast and Lightweight Acoustic Localization Protocol Using Low-End Wireless Micro-Sensors. , 0, , .		3
39	Scenario-Based Online Reachability Validation for CPS Fault Prediction. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2020, 39, 2081-2094.	1.9	3
40	Self-tuned distributed monitoring of multi-channel wireless networks using Gibbs sampler. Computer Networks, 2014, 64, 261-272.	3.2	2
41	A quadcopter swarm for active monitoring of smog propagation. , 2015, , .		2
42	Advanced Technologies for Mobile IoT and Cyber-Physical Systems. Mobile Information Systems, 2016, 2016, 1-3.	0.4	2
43	Real-time Internet of things and cyber-physical systems. Transactions on Emerging Telecommunications Technologies, 2019, 30, e3616.	2.6	2
44	Curbing Aggregate Member Flow Burstiness to Bound End-to-End Delay in Networks of TDMA Crossbar Real-Time Switches. , 2012, , .		1
45	WiP abstract: A framework on profiling cross-domain noise propagation in control CPS. , 2014, , .		1
46	Incremental Online Verification of Dynamic Cyber-Physical Systems. , 2019, , .		1
47	Evaluating the IEEE 802.15.6 2.4GHz WBAN Proposal on Medical Multi-Parameter Monitoring under WiFi/Bluetooth Interference. , 0, , 312-325.		1
48	GD-Aggregate: A WAN Virtual Topology Building Tool for Hard Real-Time and Embedded Applications. , 2007, , .		0
49	Guest editorial: Wireless body-area networks. China Communications, 2015, 12, iii-iv.	2.0	0
50	Cross-Domain Noise Impact Evaluation for Black Box Two-Level Control CPS. ACM Transactions on Cyber-Physical Systems, 2019, 3, 1-25.	1.9	0