Jose Simo

List of Publications by Year
in descending order

47 papers	515 citations	840585 11 h-index	713332 21 g-index
52 all docs	52 docs citations	52 times ranked	513 citing authors

#	Article	IF	Citations
1	Interference-Aware Schedulability Analysis and Task Allocation for Multicore Hard Real-Time Systems. Electronics (Switzerland), 2022, 11, 1313.	1.8	2
2	Magnetic Trails: A Novel Artificial Pheromone for Swarm Robotics in Outdoor Environments. Computation, 2022, 10, 98.	1.0	2
3	The Role of Mixed Criticality Technology in Industry 4.0. Electronics (Switzerland), 2021, 10, 226.	1.8	6
4	Software Components for Smart Industry Based on Microservices: A Case Study in pH Control Process for the Beverage Industry. Electronics (Switzerland), 2021, 10, 763.	1.8	2
5	Approach to an Emulation Model to Evaluate the Behavior and Impact of Microgrids in Isolated Communities. Energies, 2021, 14, 5316.	1.6	0
6	Integer Programming Techniques for Static Scheduling of Hard Real-Time Systems. IEEE Access, 2020, 8, 170389-170403.	2.6	6
7	Distributed Architecture to Integrate Sensor Information: Object Recognition for Smart Cities. Sensors, 2020, 20, 112.	2.1	14
8	Object Recognition: Distributed Architecture Based on Heterogeneous Devices to Integrate Sensor Information. Advances in Intelligent Systems and Computing, 2020, , 181-188.	0.5	0
9	Hypervisor-Based Multicore Feedback Control of Mixed-Criticality Systems. IEEE Access, 2018, 6, 50627-50640.	2.6	16
10	CKMultipeer: Connecting Devices Without Caring about the Network. Advances in Intelligent Systems and Computing, 2018, , 189-196.	0.5	1
11	Distributed Real-time Control Architecture for ROS-based Modular Robots. IFAC-PapersOnLine, 2017, 50, 11233-11238.	0.5	11
12	Smart Resource Integration on ROS-Based Systems: Highly Decoupled Resources for a Modular and Scalable Robot Development. Advances in Intelligent Systems and Computing, 2016, , 331-338.	0.5	0
13	Dynamic Reconfiguration of a RGBD Sensor Based on QoS and QoC Requirements in Distributed Systems. Sensors, 2015, 15, 18080-18101.	2.1	15
14	Control kernel in smart factory environments: Smart resources integration. , 2015, , .		13
15	Distributed Sensor Architecture for Intelligent Control that Supports Quality of Control and Quality of Service. Sensors, 2015, 15, 4700-4733.	2.1	4
16	Optimizations on semantic environment management: An application for humanoid robot home assistance. , 2014, , .		0
17	Performance and Results of the Triple Buffering Built-In in a Raspberry PI to Optimize the Distribution of Information from a Smart Sensor. Advances in Intelligent Systems and Computing, 2014, , 279-286.	0.5	2
18	Smart video sensors for 3D scene reconstruction of large infrastructures. Multimedia Tools and Applications, 2014, 73, 977-993.	2.6	4

#	Article	IF	Citations
19	Smart device definition and application on embedded system: performance and optimi-zation on a RGBD sensor. Advances in Distributed Computing and Artificial Intelligence Journal, 2014, 3, 46-55.	1.1	3
20	A Hierarchical Hybrid Architecture for Mission-Oriented Robot Control. Advances in Intelligent Systems and Computing, 2014, , 363-380.	0.5	2
21	Control kernel based adaptive control implementation. ACM SIGBED Review, 2013, 10, 24-28.	1.8	1
22	A Reliability-Based Particle Filter for Humanoid Robot Self-Localization in RoboCup Standard Platform League. Sensors, 2013, 13, 14954-14983.	2.1	7
23	Video Sensor Architecture for Surveillance Applications. Sensors, 2012, 12, 1509-1528.	2.1	16
24	High performance dynamic voltage/frequency scaling algorithm for real-time dynamic load management. Journal of Systems and Software, 2012, 85, 906-919.	3.3	10
25	Relationship between Quality of Control and Quality of Service in Mobile Robot Navigation. Advances in Intelligent and Soft Computing, 2012, , 557-564.	0.2	3
26	Î¼DDS: A Middleware for Real-time Wireless Embedded Systems. Journal of Intelligent and Robotic Systems: Theory and Applications, 2011, 64, 489-503.	2.0	10
27	Formal Specification and Design Techniques for Wireless Sensor and Actuator Networks. Sensors, 2011, 11, 1059-1077.	2.1	14
28	Automatic Population of Scenarios with Augmented Virtuality. , 2011, , 347-353.		2
29	A Survey on Quality of Service Support on Middleware-Based Distributed Messaging Systems Used in Multi Agent Systems. Advances in Intelligent and Soft Computing, 2011, , 77-84.	0.2	1
30	Embedded low-level video processing for surveillance purposes. , 2010, , .		5
31	A constant-time region-based memory allocator for embedded systems with unpredictable length array generation. , 2010, , .		1
32	Control Co-design: Algorithms and Their Implementation. Lecture Notes in Computer Science, 2010, , 19-40.	1.0	0
33	Multi-Agent Architecture with Support to Quality of Service and Quality of Control. Lecture Notes in Computer Science, 2010, , 137-144.	1.0	0
34	Procedimiento de DiseÃ±o para Minimizar el Consumo de Potencia y las Latencias en WSAN. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2010, 7, 95-110.	0.6	0
35	QoS-Based Middleware Architecture for Distributed Control Systems. Advances in Soft Computing, 2009, , 587-595.	0.4	7
36	From the Queue to the Quality of Service Policy: A Middleware Implementation. Lecture Notes in Computer Science, 2009, , 432-437.	1.0	6

#	Article	IF	Citations
37	Agent-based distributed architecture for mobile robot control. Engineering Applications of Artificial Intelligence, 2008, 21, 805-823.	4.3	63
38	Wireless Sensor and Actuator Networks: Charecterization and case study for confined spaces healthcare applications. Proceedings of the International Multiconference on Computer Science and Information Technology, 2008, , .	0.0	6
39	Advanced Distributed Architecture for a Small Biped Robot Control. , 2006, , .		4
40	CONTROL KERNEL: A KEY CONCEPT IN EMBEDDED CONTROL SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 330-335.	0.4	6
41	Differentiating walls from corners using the amplitude of ultrasonic echoes. Robotics and Autonomous Systems, 2005, 50, 13-25.	3.0	17
42	Using infrared sensors for distance measurement in mobile robots. Robotics and Autonomous Systems, 2002, 40, 255-266.	3.0	190
43	Communications structure for sensory data in mobile robots. Engineering Applications of Artificial Intelligence, 2002, 15, 341-350.	4.3	16
44	Flexible real-time mobile robotic architecture based on behavioural models. Engineering Applications of Artificial Intelligence, 2001, 14, 685-702.	4.3	18
45	Adaptive QoS Management System for Autonomous Vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 143-150.	0.4	0
46	Flexible Real-Time Architecture for Hybrid Mobile Robotic Applications. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 271-278.	0.4	0
47	Distributed real time architecture for small biped robot YABIRO.. , 0, , .		4