Sauro Longhi

List of Publications by Year
in descending order

45 papers	703 citations	840119 11 h-index	676716 22 g-index
47 all docs	47 docs citations	47 times ranked	584 citing authors

#	ARTICLE	IF	CITATIONS
1	Flight Control of a Quadrotor Vehicle Subsequent to a Rotor Failure. Journal of Guidance, Control, and Dynamics, 2014, 37, 580-591.	1.6	122
2	The realization problem for linear periodic systems. Automatica, 1995, 31, 775-779.	3.0	72
3	Real-time mental stress detection based on smartwatch. , 2017, , .		55
4	The geometric approach for linear periodic discrete-time systems. Linear Algebra and Its Applications, 1991, 158, 27-60.	0.4	49
5	A Smart Sensing Architecture for Domestic Monitoring: Methodological Approach and Experimental Validation. Sensors, 2018, 18, 2310.	2.1	45
6	Tiny Cyber-Physical Systems for Performance Improvement in the Factory of the Future. IEEE Transactions on Industrial Informatics, 2019, 15, 1598-1608.	7.2	25
7	An instrumental approach for monitoring physical exercises in a visual markerless scenario: A proof of concept. Journal of Biomechanics, 2018, 69, 70-80.	0.9	24
8	Fault Detection and Isolation of Linear Discrete-Time Periodic Systems Using the Geometric Approach. IEEE Transactions on Automatic Control, 2017, 62, 1518-1523.	3.6	21
9	An Embedded Database Technology Perspective in Cyber-physical Production Systems. Procedia Manufacturing, 2017, 11, 830-837.	1.9	21
10	A Database-Centric Framework for the Modeling, Simulation, and Control of Cyber-Physical Systems in the Factory of the Future. Journal of Intelligent Systems, 2018, 27, 659-679.	1.2	20
11	A scalable production efficiency tool for the robotic cloud in the fractal factory. , 2016, , .		19
12	IoT based indoor personal comfort levels monitoring. , 2016, , .		18
13	SLAM-based autonomous wheelchair navigation system for AAL scenarios. , 2014, , .		16
14	Robotics 4.0: Performance improvement made easy. , 2017, , .		16
15	The relational model: In search for lean and mean CPS technology. , 2017, , .		15
16	Predictive Maintenance System using motor current signal analysis for Industrial Robot. , 2019, , .		14
17	Health@Home: pilot cases and preliminary results : Integrated residential sensor network to promote the active aging of real users. , 2018, , .		12
18	Information Management and Decision Making Supported by an Intelligence System in Kitchen Fronts Control Process. Advances in Intelligent Systems and Computing, 2018, , 249-259.	0.5	12

#	Article	IF	Citations
19	Navigation system for a smart wheelchair. Journal of Zhejiang University Science B, 2005, 6A, 110-117.	0.4	12
20	AAL Technologies for Independent Life of Elderly People. Biosystems and Biorobotics, 2015, , 329-343.	0.2	10
21	A novel computer vision based e-rehabilitation system: From gaming to therapy support. , 2016, , .		9
22	Execution Time of Optimal Controls in Hard Real Time, a Minimal Execution Time Solution for Nonlinear SDRE. IEEE Access, 2020, 8, 158008-158025.	2.6	9
23	RMAS architecture for industrial agents in IEC 61499. Procedia Manufacturing, 2020, 42, 84-90.	1.9	9
24	Towards an All-Wheel Drive Motorcycle: Dynamic Modeling and Simulation. IEEE Access, 2020, 8, 112867-112882.	2.6	8
25	RMAS Architecture for Autonomic Computing in Cyber-Physical Systems. , 2019, , .		7
26	IEC 61499 Device Management Model through the lenses of RMAS. Procedia Computer Science, 2021, 180, 656-665.	1.2	7
27	Augmenting robot intelligence via EEG signals to avoid trajectory planning mistakes of a smart wheelchair. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 223-235.	3.3	7
28	Self-similar Computing Structures for CPSs: A Case Study on POTS Service Process. IFIP Advances in Information and Communication Technology, 2017, , 157-166.	0.5	6
29	Simulation Analysis and Performance Evaluation of a Vibratory Feeder Actuated by Dielectric Elastomers. , 2018, , .		5
30	Geometric tools for solving the FDI problem for linear periodic discrete-time systems. International Journal of Control, 2013, 86, 1214-1226.	1.2	4
31	Real time step length estimation on smartphone. , 2016, , .		4
32	Dynamic Surface Control for Multirotor Vehicles. , 2018, , .		4
33	Prospective ISO 22400 for the challenges of human-centered manufacturing. IFAC-PapersOnLine, 2019, 52, 2537-2543.	0.5	4
34	Special Issue on â€œSmart Homesâ€, Editorsâ€™ Notes. Sensors, 2019, 19, 836.	2.1	3
35	Motor Torque Analysis for diagnosis in PMSMs under non-stationary conditions. , 2021, , .		3
36	The Overall Labour Effectiveness to Improve Competitiveness and Productivity in Human-Centered Manufacturing. Lecture Notes in Mechanical Engineering, 2022, , 144-155.	0.3	3

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37	Towards a formal model of computation for RMAS. Procedia Computer Science, 2022, 200, 865-877.	1.2	3
38	Direct position control of an octarotor unmanned vehicle under wind gust disturbance. , 2019, , .		2
39	Optimal Fault Tolerant Error Governor for PID Controllers. International Journal of Control, Automation and Systems, 2022, 20, 1814-1826.	1.6	2
40	Multimedia experience enhancement through affective computing. , 2017, , .		1
41	The Double Propeller Ducted-Fan, an UAV for safe Infrastructure inspection and human-interaction. , 2020, , .		1
42	On the Synthesis of Holonic Management Trees. , 2021, , .		1
43	Towards Sustainable Models of Computation for Artificial Intelligence in Cyber-Physical Systems. , 2021, , .		1
44	Neuromuscular Control Modelling of Human Perturbed Posture Through Piecewise Affine Autoregressive With Exogenous Input Models. Frontiers in Bioengineering and Biotechnology, 2021, 9, 804904.	2.0	1
45	Fault detection of nonlinear processes based on switching linear regression models. , 2016, , .		0