Luigi Fortuna

List of Publications by Year
in descending order

55	1,192	471509 17	377865 34
papers	citations	h-index	g-index

56	56	56	1147
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nyquist Plots for MIMO Systems Under Frequency Transformations. , 2022, 6, 169-174.		6
2	Remote Ultrasound Scan Procedures with Medical Robots: Towards New Perspectives between Medicine and Engineering. Applied Bionics and Biomechanics, 2022, 2022, 1-12.	1.1	9
3	Model Identification to Validate Printed Circuit Boards for Power Applications: A New Technique. IEEE Access, 2022, 10, 31760-31774.	4.2	4
4	Human Control Model Estimation in Physical Humanâ€“Machine Interaction: A Survey. Sensors, 2022, 22, 1732.	3.8	9
5	Multiple Hysteresis Jump Resonance in a Class of Oscillators with Nonic Polynomial Nonlinearity. , 2022, , 513-521.		0
6	How Nonlinear Science Leads to Continuous Innovation in an Academic and Productive High-Tech Community. Nonlinear Phenomena in Complex Systems, 2022, 25, 1-12.	0.3	0
7	Nyquist plots under frequency transformations: the discrete-time case. , 2022, , 1-1.		0
8	Incremental Adaptive Gesture Classifier for Upper Limb Prostheses. IEEE Sensors Journal, 2022, 22, 14273-14283.	4.7	3
9	A New Asymptotic Stability Criterion for Linear Discrete-time Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, , 1-1.	3.0	0
10	Delay Independent Stability Control for Commensurate Multiple Time-Delay Systems. , 2021, 5, 1249-1254.		6
11	Resonance. Bulletin of the Gioenia Academy of Catania, 2021, 54, OL1-OL22.	0.2	0
12	Data-driven order reduction in Hammersteinâ€“Wiener models of plasma dynamics. Engineering Applications of Artificial Intelligence, 2021, 100, 104180.	8.1	4
13	Can Noise in the Feedback Improve the Performance of a Control System?. Journal of the Physical Society of Japan, 2021, 90, 075002.	1.6	23
14	Imperfections in Integrated Devices Allow the Emergence of Unexpected Strange Attractors in Electronic Circuits. IEEE Access, 2021, 9, 29573-29583.	4.2	55
15	Reviewing Bioinspired Technologies for Future Trends: A Complex Systems Point of View. Frontiers in Physics, 2021, 9, .	2.1	10
16	The impact of Cellular Nonlinear Networks in a Scientific Community: the case of the Etna Valley. , 2021, , .		0
17	A Comparative Analysis of Computer-Aided Design Tools for Complex Power Electronics Systems. Energies, 2021, 14, 7729.	3.1	5
18	Jump Resonance in Electromechanical Systems. IFAC-PapersOnLine, 2021, 54, 32-35.	0.9	0

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19	Chaos Addresses Energy in Networks of Electrical Oscillators. IEEE Access, 2021, 9, 153258-153265.	4.2	12
20	Selective frequency drift detectors based on multiple hysteresis jump resonance. , 2021, , .		0
21	Ebatronics: A New Paradigm for Experimental Laboratory in Applied Science and Technology. The Physics Educator, 2021, 03, .	0.4	3
22	Multi-jump resonance systems. International Journal of Control, 2020, 93, 282-292.	1.9	13
23	Cascading With Inner Systems: Hankel Singular Values and Characteristic Values. IEEE Transactions on Automatic Control, 2020, 65, 727-732.	5.7	1
24	Automation of the Leonardo da Vinci Machines. Machines, 2020, 8, 53.	2.2	13
25	A New Time-Delay Model for Chaotic Glucose-Insulin Regulatory System. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050178.	1.7	2
26	Force Feedback Assistance in Remote Ultrasound Scan Procedures. Energies, 2020, 13, 3376.	3.1	14
27	Hankel Singular Values and LQG Characteristic Values of Discrete-Time Linear Systems in Cascade With Inner Systems. IEEE Transactions on Automatic Control, 2020, 65, 4989-4994.	5.7	3
28	Multiple Hysteresis Jump Resonance in a Class of Forced Nonlinear Circuits and Systems. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050258.	1.7	12
29	Stochastic Resonance in Electromechanical Vibrating Systems. Journal of the Physical Society of Japan, 2020, 89, 115001.	1.6	3
30	Nonlinear effects for the reinforcement of small neural ensembles in high dimensional brain. Physics of Life Reviews, 2019, 29, 101-103.	2.8	1
31	Control of imperfect dynamical systems. Nonlinear Dynamics, 2019, 98, 2989-2999.	5.2	112
32	Nyquist plots under frequency transformations. Systems and Control Letters, 2019, 125, 16-21.	2.3	4
33	Jump Resonance in Fractional Order Circuits. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2018, 28, 1850016.	1.7	4
34	Special issue on Complexity in Engineering. Nonlinear Dynamics, 2018, 92, 1-2.	5.2	45
35	Synchronization of chaotic systems with activity-driven time-varying interactions. Journal of Complex Networks, 2018, 6, 173-186.	1.8	5
36	Synchronization in Time-Varying Networks. SpringerBriefs in Applied Sciences and Technology, 2018, , 93-107.	0.4	0

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37	Synchronization of two RÃ¶ssler systems with switching coupling. Nonlinear Dynamics, 2017, 88, 673-683.	5.2	36
38	Nonideal Behavior of Analog Multipliers for Chaos Generation. IEEE Transactions on Circuits and Systems II: Express Briefs, 2016, 63, 396-400.	3.0	22
39	Memristor-Based Adaptive Coupling for Consensus and Synchronization. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 1175-1184.	5.4	56
40	A Concise Guide to Chaotic Electronic Circuits. SpringerBriefs in Applied Sciences and Technology, 2014, , .	0.4	44
41	Experimental investigation of chimera states with quiescent and synchronous domains in coupled electronic oscillators. Physical Review E, 2014, 90, 032905.	2.1	150
42	Analysis of remote synchronization in complex networks. Chaos, 2013, 23, 043103.	2.5	73
43	A data driven model of TiO<inf>2</inf> printed memristors. , 2013, , .		2
44	Spatial Pinning Control. Physical Review Letters, 2012, 108, 204102.	7.8	39
45	A polymeric micro-optical system for the spatial monitoring in two-phase microfluidics. Microfluidics and Nanofluidics, 2012, 12, 165-174.	2.2	30
46	Microfluidic circuits and systems. IEEE Circuits and Systems Magazine, 2009, 9, 6-19.	2.3	20
47	Synchronization of Moving Chaotic Agents. Physical Review Letters, 2008, 100, 044102.	7.8	158
48	CHAOS DOES HELP MOTION CONTROL. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 3577-3581.	1.7	35
49	An Improved Instrument for Real-Time Measurement of Blood Flow Velocity in Microvessels. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 2663-2671.	4.7	22
50	Dynamics of neuron populations in noisy environments. Chaos, 2005, 15, 014102.	2.5	11
51	THE CNN PARADIGM: SHAPES AND COMPLEXITY. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 2063-2090.	1.7	103
52	COMPLEXITY IN AN INDUSTRIAL FLYBACK CONVERTER. Journal of Circuits, Systems and Computers, 1995, 05, 627-633.	1.5	1
53	LQG control of linear lossless positive-real systems: the continuous-time and discrete-time cases. International Journal of Dynamics and Control, 0, , 1.	2.5	3
54	The generalized Letov formula for MIMO not-strictly proper systems. International Journal of Dynamics and Control, 0, , 1.	2.5	1

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55	Generalizing the Letov formula for the discrete-time case. International Journal of Dynamics and Control, 0, , .	2.5	2