

Luigi Fortuna

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

1,192
citations

471509

17
h-index

377865

34
g-index

56
all docs

56
docs citations

56
times ranked

1147
citing authors

#	ARTICLE	IF	CITATIONS
1	Synchronization of Moving Chaotic Agents. <i>Physical Review Letters</i> , 2008, 100, 044102.	7.8	158
2	Experimental investigation of chimera states with quiescent and synchronous domains in coupled electronic oscillators. <i>Physical Review E</i> , 2014, 90, 032905.	2.1	150
3	Control of imperfect dynamical systems. <i>Nonlinear Dynamics</i> , 2019, 98, 2989-2999.	5.2	112
4	THE CNN PARADIGM: SHAPES AND COMPLEXITY. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2005, 15, 2063-2090.	1.7	103
5	Analysis of remote synchronization in complex networks. <i>Chaos</i> , 2013, 23, 043103.	2.5	73
6	Memristor-Based Adaptive Coupling for Consensus and Synchronization. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2015, 62, 1175-1184.	5.4	56
7	Imperfections in Integrated Devices Allow the Emergence of Unexpected Strange Attractors in Electronic Circuits. <i>IEEE Access</i> , 2021, 9, 29573-29583.	4.2	55
8	Special issue on Complexity in Engineering. <i>Nonlinear Dynamics</i> , 2018, 92, 1-2.	5.2	45
9	A Concise Guide to Chaotic Electronic Circuits. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2014, , .	0.4	44
10	Spatial Pinning Control. <i>Physical Review Letters</i> , 2012, 108, 204102.	7.8	39
11	Synchronization of two Rössler systems with switching coupling. <i>Nonlinear Dynamics</i> , 2017, 88, 673-683.	5.2	36
12	CHAOS DOES HELP MOTION CONTROL. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2007, 17, 3577-3581.	1.7	35
13	A polymeric micro-optical system for the spatial monitoring in two-phase microfluidics. <i>Microfluidics and Nanofluidics</i> , 2012, 12, 165-174.	2.2	30
14	Can Noise in the Feedback Improve the Performance of a Control System?. <i>Journal of the Physical Society of Japan</i> , 2021, 90, 075002.	1.6	23
15	An Improved Instrument for Real-Time Measurement of Blood Flow Velocity in Microvessels. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2007, 56, 2663-2671.	4.7	22
16	Nonideal Behavior of Analog Multipliers for Chaos Generation. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2016, 63, 396-400.	3.0	22
17	Microfluidic circuits and systems. <i>IEEE Circuits and Systems Magazine</i> , 2009, 9, 6-19.	2.3	20
18	Force Feedback Assistance in Remote Ultrasound Scan Procedures. <i>Energies</i> , 2020, 13, 3376.	3.1	14

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19	Multi-jump resonance systems. <i>International Journal of Control</i> , 2020, 93, 282-292.	1.9	13
20	Automation of the Leonardo da Vinci Machines. <i>Machines</i> , 2020, 8, 53.	2.2	13
21	Multiple Hysteresis Jump Resonance in a Class of Forced Nonlinear Circuits and Systems. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2020, 30, 2050258.	1.7	12
22	Chaos Addresses Energy in Networks of Electrical Oscillators. <i>IEEE Access</i> , 2021, 9, 153258-153265.	4.2	12
23	Dynamics of neuron populations in noisy environments. <i>Chaos</i> , 2005, 15, 014102.	2.5	11
24	Reviewing Bioinspired Technologies for Future Trends: A Complex Systems Point of View. <i>Frontiers in Physics</i> , 2021, 9, .	2.1	10
25	Remote Ultrasound Scan Procedures with Medical Robots: Towards New Perspectives between Medicine and Engineering. <i>Applied Bionics and Biomechanics</i> , 2022, 2022, 1-12.	1.1	9
26	Human Control Model Estimation in Physical Human-Machine Interaction: A Survey. <i>Sensors</i> , 2022, 22, 1732.	3.8	9
27	Delay Independent Stability Control for Commensurate Multiple Time-Delay Systems. , 2021, 5, 1249-1254.		6
28	Nyquist Plots for MIMO Systems Under Frequency Transformations. , 2022, 6, 169-174.		6
29	Synchronization of chaotic systems with activity-driven time-varying interactions. <i>Journal of Complex Networks</i> , 2018, 6, 173-186.	1.8	5
30	A Comparative Analysis of Computer-Aided Design Tools for Complex Power Electronics Systems. <i>Energies</i> , 2021, 14, 7729.	3.1	5
31	Jump Resonance in Fractional Order Circuits. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2018, 28, 1850016.	1.7	4
32	Nyquist plots under frequency transformations. <i>Systems and Control Letters</i> , 2019, 125, 16-21.	2.3	4
33	Data-driven order reduction in Hammerstein-Wiener models of plasma dynamics. <i>Engineering Applications of Artificial Intelligence</i> , 2021, 100, 104180.	8.1	4
34	Model Identification to Validate Printed Circuit Boards for Power Applications: A New Technique. <i>IEEE Access</i> , 2022, 10, 31760-31774.	4.2	4
35	Hankel Singular Values and LQG Characteristic Values of Discrete-Time Linear Systems in Cascade With Inner Systems. <i>IEEE Transactions on Automatic Control</i> , 2020, 65, 4989-4994.	5.7	3
36	LQG control of linear lossless positive-real systems: the continuous-time and discrete-time cases. <i>International Journal of Dynamics and Control</i> , 0, , 1.	2.5	3

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37	Stochastic Resonance in Electromechanical Vibrating Systems. Journal of the Physical Society of Japan, 2020, 89, 115001.	1.6	3
38	Ebatronics: A New Paradigm for Experimental Laboratory in Applied Science and Technology. The Physics Educator, 2021, 03, .	0.4	3
39	Incremental Adaptive Gesture Classifier for Upper Limb Prostheses. IEEE Sensors Journal, 2022, 22, 14273-14283.	4.7	3
40	A data driven model of TiO ₂ printed memristors. , 2013, , .		2
41	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
42	Generalizing the Letov formula for the discrete-time case. International Journal of Dynamics and Control, 0, , .	2.5	2
43	COMPLEXITY IN AN INDUSTRIAL FLYBACK CONVERTER. Journal of Circuits, Systems and Computers, 1995, 05, 627-633.	1.5	1
44	Nonlinear effects for the reinforcement of small neural ensembles in high dimensional brain. Physics of Life Reviews, 2019, 29, 101-103.	2.8	1
45	Cascading With Inner Systems: Hankel Singular Values and Characteristic Values. IEEE Transactions on Automatic Control, 2020, 65, 727-732.	5.7	1
46	The generalized Letov formula for MIMO not-strictly proper systems. International Journal of Dynamics and Control, 0, , 1.	2.5	1
47	Resonance. Bulletin of the Gioenia Academy of Catania, 2021, 54, OL1-OL22.	0.2	0
48	Synchronization in Time-Varying Networks. SpringerBriefs in Applied Sciences and Technology, 2018, , 93-107.	0.4	0
49	The impact of Cellular Nonlinear Networks in a Scientific Community: the case of the Etna Valley. , 2021, , .		0
50	Jump Resonance in Electromechanical Systems. IFAC-PapersOnLine, 2021, 54, 32-35.	0.9	0
51	Selective frequency drift detectors based on multiple hysteresis jump resonance. , 2021, , .		0
52	Multiple Hysteresis Jump Resonance in a Class of Oscillators with Nonic Polynomial Nonlinearity. , 2022, , 513-521.		0
53	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
54	Nyquist plots under frequency transformations: the discrete-time case. , 2022, , 1-1.		0

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55	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