Eleonora Bilotta

List of Publications by Year
in descending order

108 papers	1,672 citations	304602 22 h-index	360920 35 g-index
116 all docs	116 docs citations	116 times ranked	1119 citing authors

#	Article	IF	Citations
1	Shopping with a robotic companion. Computers in Human Behavior, 2017, 77, 382-395.	5.1	130
2	Using social media to identify tourism attractiveness in six Italian cities. Tourism Management, 2019, 72, 306-312.	5.8	121
3	A GALLERY OF CHUA ATTRACTORS: PART I. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 1-60.	0.7	59
4	Branding luxury hotels: Evidence from the analysis of consumers' "big"visual data on TripAdvisor. Journal of Business Research, 2020, 119, 495-501.	5.8	56
5	Neuroprotective effect of human mesenchymal stem cells in a compartmentalized neuronal membrane system. Acta Biomaterialia, 2015, 24, 297-308.	4.1	54
6	CHAOS AT SCHOOL: CHUA'S CIRCUIT FOR STUDENTS IN JUNIOR AND SENIOR HIGH SCHOOL. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 1-28.	0.7	51
7	Motivating the learning of science topics in secondary school: A constructivist edutainment setting for studying Chaos. Computers and Education, 2012, 59, 1377-1386.	5.1	47
8	A Cellular Neural Network methodology for the automated segmentation of multiple sclerosis lesions. Journal of Neuroscience Methods, 2012, 203, 193-199.	1.3	44
9	Industry 4.0 technologies in tourism education: Nurturing students to think with technology. Journal of Hospitality, Leisure, Sport and Tourism Education, 2021, 29, 100275.	1.9	39
10	Lesson Planning by Computational Thinking Skills in Italian Pre-service Teachers. Informatics in Education, 2019, 18, 69-104.	1.8	37
11	Demyelination patterns in a mathematical model of multiple sclerosis. Journal of Mathematical Biology, 2017, 75, 373-417.	0.8	36
12	Structural and functional growth in self-reproducing cellular automata. Complexity, 2006, 11, 12-29.	0.9	32
13	A GALLERY OF CHUA ATTRACTORS: PART III. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 657-734.	0.7	31
14	A GALLERY OF CHUA ATTRACTORS PART VI. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 1801-1910.	0.7	31
15	A GALLERY OF CHUA ATTRACTORS: PART II. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 293-380.	0.7	31
16	Emergent Patterning Phenomena in 2D Cellular Automata. Artificial Life, 2005, 11, 339-362.	1.0	30
17	Connecting Art and Science for Education: Learning through an Advanced Virtual Theater with "Talking Heads". Leonardo, 2010, 43, 442-448.	0.2	30
18	Life-like self-reproducers. Complexity, 2003, 9, 38-55.	0.9	29

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19	A GALLERY OF CHUA ATTRACTORS: PART IV. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 1017-1077.	0.7	29
20	A GALLERY OF CHUA ATTRACTORS PART V. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 1383-1511.	0.7	27
21	THE LANGUAGE OF CHAOS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 523-557.	0.7	25
22	ARTIFICIAL MICRO-WORLDS PART I: A NEW APPROACH FOR STUDYING LIFE-LIKE PHENOMENA. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 373-398.	0.7	25
23	Fully Automated Segmentation of the Pons and Midbrain Using Human T1 MR Brain Images. PLoS ONE, 2014, 9, e85618.	1.1	25
24	Coding with Scratch: The design of an educational setting for Elementary pre-service teachers. , 2015, , .		25
25	The chaotic dynamics of high-dimensional systems. Nonlinear Dynamics, 2017, 87, 2597-2610.	2.7	25
26	READING COMPLEXITY IN CHUA'S OSCILLATOR THROUGH MUSIC. PART I: A NEW WAY OF UNDERSTANDING CHAOS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 253-382.	0.7	23
27	Computer graphics meets chaos and hyperchaos. Some key problems. Computers and Graphics, 2006, 30, 359-367.	1.4	23
28	Multi-objective optimization and rapid prototyping for jewelry industry: methodologies and case studies. International Journal of Advanced Manufacturing Technology, 2021, 112, 2943-2959.	1.5	23
29	An educational environment using WWW. Computer Networks, 1995, 27, 905-909.	1.0	21
30	Searching for complex CA rules with GAs. Complexity, 2003, 8, 56-67.	0.9	21
31	Machine learning and points of interest: typical tourist Italian cities. Current Issues in Tourism, 2020, 23, 1646-1658.	4.6	21
32	Toward the Use of Chua's Circuit in Education, Art and Interdisciplinary Research: Some Implementation and Opportunities. Leonardo, 2013, 46, 456-463.	0.2	20
33	An emotional learning environment for subjects with Autism Spectrum Disorder. , 2013, , .		20
34	ARTIFICIAL MICRO-WORLDS PART II: CELLULAR AUTOMATA GROWTH DYNAMICS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 619-645.	0.7	19
35	The role of computer simulations in learning analytic mechanics towards chaos theory: a course experimentation. International Journal of Mathematical Education in Science and Technology, 2019, 50, 100-120.	0.8	17
36	An Educational Robotics Lab to Investigate Cognitive Strategies and to Foster Learning in an Arts and Humanities Course Degree. International Journal of Online Engineering, 2017, 13, 7.	0.5	16

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37	Evolutionary Methods for Melodic Sequences Generation from Non-linear Dynamic Systems. , 2007, , 585-592.		16
38	Edutainment Robotics as Learning Tool. Lecture Notes in Computer Science, 2009, , 25-35.	1.0	16
39	Synthetic Harmonies: An Approach to Musical Semiosis by Means of Cellular Automata. Leonardo, 2002, 35, 153-159.	0.2	15
40	The development and application of an optimization tool in industrial design. International Journal on Interactive Design and Manufacturing, 2020, 14, 955-970.	1.3	15
41	Learning in the Smart City: A Virtual and Augmented Museum Devoted to Chaos Theory. Lecture Notes in Computer Science, 2014, , 261-270.	1.0	15
42	On the temporal spreading of the SARS-CoV-2. PLoS ONE, 2020, 15, e0240777.	1.1	13
43	DISCRETE CHAOTIC DYNAMICS FROM CHUA'S OSCILLATOR: <i>CHUA MACHINES</i>. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 1-115.	0.7	12
44	Synchronization and Waves in a Ring of Diffusively Coupled Memristor-Based Chua's Circuits. Acta Applicandae Mathematicae, 2014, 132, 83-94.	0.5	12
45	Emergence of linguistic-like structures in one-dimensional cellular automata. AIP Conference Proceedings, 2016, , .	0.3	12
46	A Project Based Learning Approach for Improving Students' Computational Thinking Skills. Frontiers in Robotics and AI, 2022, 9, 720448.	2.0	12
47	Chaotic target representation for robust object tracking. Signal Processing: Image Communication, 2017, 54, 23-35.	1.8	10
48	Multi-step prediction method for robust object tracking. , 2017, 70, 94-104.		10
49	Edutainment Robotics as Learning Tool. Lecture Notes in Computer Science, 2009, , 422-422.	1.0	10
50	Computation of supertrack functions for Chua's oscillator and for Chua's circuit with memristor. Communications in Nonlinear Science and Numerical Simulation, 2021, 94, 105568.	1.7	9
51	ARTIFICIAL MICRO WORLDS PART IV: MODELS OF COMPLEX SELF-REPRODUCERS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 1501-1521.	0.7	8
52	Enhancing store layout decision with agent-based simulations of consumers' density. Expert Systems With Applications, 2021, 182, 115231.	4.4	8
53	ARTIFICIAL MICRO-WORLDS PART III: A TAXONOMY OF SELF-REPRODUCING 2D CA SPECIES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 1233-1263.	0.7	7
54	FPGA-Based Distributed Computing Microarchitecture for Complex Physical Dynamics Investigation. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 1390-1399.	7.2	7

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55	Spontaneous Synchronization in Two Mutually Coupled Memristor-Based Chua's Circuits: Numerical Investigations. Mathematical Problems in Engineering, 2014, 2014, 1-15.	0.6	7
56	An Educational Coding Laboratory for Elementary Pre-service Teachers: A Qualitative Approach. International Journal of Engineering Pedagogy, 2016, 6, 11.	0.7	7
57	Snarcing with a phone: The role of order in spatial-numerical associations is revealed by context and task demands.. Journal of Experimental Psychology: Human Perception and Performance, 2021, 47, 1365-1377.	0.7	7
58	CELLULAR NONLINEAR NETWORKS MEET KdV EQUATION: A NEW PARADIGM. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2013, 23, 1330003.	0.7	6
59	Wavefront invasion for a chemotaxis model of Multiple Sclerosis. Ricerche Di Matematica, 2016, 65, 423-434.	0.6	6
60	Brain-like large scale cognitive networks and dynamics. European Physical Journal: Special Topics, 2018, 227, 787-797.	1.2	6
61	University Students' Hangover May Affect Cognitive Research. Frontiers in Psychology, 2020, 11, 573291.	1.1	6
62	A unifying nonlinear probabilistic epidemic model in space and time. Scientific Reports, 2021, 11, 13860.	1.6	5
63	Algorithms for Jewelry Industry 4.0. Lecture Notes in Computer Science, 2020, , 425-436.	1.0	5
64	Shaping the aesthetical landscape by using image statistics measures. Acta Psychologica, 2022, 224, 103530.	0.7	5
65	Shopping with(out) distancing: modelling the personal space to limit the spread of contagious disease among consumers in retail stores. Journal of Marketing Management, 2021, 37, 1764-1782.	1.2	5
66	Virtual museums and Calabrian cultural heritage: Projects and challenges. , 2015, , .		4
67	Mid-sagittal plane detection for advanced physiological measurements in brain scans. Physiological Measurement, 2019, 40, 115009.	1.2	4
68	Observations on Complex Multi-state CAs. Lecture Notes in Computer Science, 2001, , 226-235.	1.0	4
69	Complex interactions in one-dimensional cellular automata and linguistic constructions. Applied Mathematical Sciences, 2018, 12, 691-721.	0.0	3
70	A GA-Based Control Strategy to Create Music with a Chaotic System. Lecture Notes in Computer Science, 2009, , 585-590.	1.0	3
71	Complexity and emergence of wave dynamics in a chain of sequentially interconnected Chua circuits. Mechanics Research Communications, 2015, 68, 9-17.	1.0	2
72	Surfing virtual environment in the Galápagos Islands. , 2015, , .		2

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73	Discovery of Regular Domains in Large DNA Data Sets. , 2017, , .		2
74	Digital interaction. , 2018, , .		2
75	Probability-density risk-maps for tourism during emergencies. Annals of Tourism Research, 2021, 92, 103259.	3.7	2
76	Preliminary study of an innovative method to increase the accuracy in direct 3D-Printing of NURBS objects. , 2021, , .		2
77	Reconfigurable Implementation of a CNN-UM Platform for Fast Dynamical Systems Simulation. Lecture Notes in Electrical Engineering, 2014, , 85-101.	0.3	2
78	VALE-Emotions: Aplicación móvil de enseñanza para individuos con Desordenes del Espectro Autista. Enfoqute, 2017, 8, 358-373.	0.3	2
79	SARS-CoV-2 emerging complexity and global dynamics. Chaos, 2021, 31, 123110.	1.0	2
80	Emergence nonlinear Multifractal architecture by Hypervolume estimation algorithm for evolutionary multi-criteria optimisation. International Journal of Parallel, Emergent and Distributed Systems, 2017, 32, S101-S113.	0.7	1
81	Clustering Analysis to Profile Customers' Behaviour in POWER CLOUD Energy Community. Lecture Notes in Computer Science, 2020, , 437-450.	1.0	1
82	Biological Traits in Artificial Self-Reproducing Systems. , 0, , 109-123.		1
83	A WWW Hypermedia Prototype. Workshops in Computing, 1996, , 199-201.	0.4	1
84	Modelling on Human Intelligence aÂMachine Learning System. Lecture Notes in Computer Science, 2020, , 410-424.	1.0	1
85	Spatiotemporal Pattern Formation in a Ring of Chua's Oscillators. Regular and Chaotic Dynamics, 2021, 26, 717-731.	0.3	1
86	Implementing a New Class-Lab. International Journal of Digital Literacy and Digital Competence, 2015, 6, 33-49.	0.1	0
87	GENERATING MULTI STATE CELLULAR AUTOMATA BY USING CHUA'S "UNIVERSAL NEURON". , 2007, , .		0
88	Biological Traits in Artificial Self-Reproducing Systems. International Journal of Signs and Semiotic Systems, 2012, 2, 69-83.	0.1	0
89	Digital manipulation versus real one: learning and motivation in a case study on Storytelling. Research on Education and Media, 2019, 11, 32-41.	0.2	0
90	Outline. , 0, , 1-16.		0

#	Article	IF	Citations
91	Basic Definitions. , 0, , 17-50.		0
92	Modelling Biological Systems. , 0, , 51-82.		0
93	Cellular Automata Metrics. , 0, , 114-149.		0
94	The Discovery of Complex Rules. , 0, , 150-184.		0
95	Searching for Self-Replicating Systems. , 0, , 185-209.		0
96	Lifelike Self-Replicators. , 0, , 210-247.		0
97	Language Structures in Cellular Automata. , 0, , 248-281.		0
98	Models of Self-Replicators. , 0, , 282-314.		0
99	A Genetic Approach to the Study of Self-Replication. , 0, , 315-361.		0
100	A Zoo of Self-Replicators. , 0, , 379-426.		0
101	Rhythms of Life. , 0, , 427-458.		0
102	From Rhythm to Sound and Music. , 0, , 459-485.		0
103	10.1063/5.0062749.1. , 2021, , .		0
104	10.1063/5.0062749.2. , 2021, , .		0
105	On the temporal spreading of the SARS-CoV-2. , 2020, 15, e0240777.		0
106	On the temporal spreading of the SARS-CoV-2. , 2020, 15, e0240777.		0
107	On the temporal spreading of the SARS-CoV-2. , 2020, 15, e0240777.		0
108	On the temporal spreading of the SARS-CoV-2. , 2020, 15, e0240777.		0