Luciano Da F Costa

List of Publications by Year
in descending order

243 papers	7,180 citations	70961 41 h-index	76769 74 g-index
247 all docs	247 docs citations	247 times ranked	7896 citing authors

#	Article	IF	Citations
1	Analyzing and modeling real-world phenomena with complex networks: a survey of applications. Advances in Physics, 2011, 60, 329-412.	35.9	532
2	Mechanosensing is critical for axon growth in the developing brain. Nature Neuroscience, 2016, 19, 1592-1598.	7.1	478
3	2D Euclidean distance transform algorithms. ACM Computing Surveys, 2008, 40, 1-44.	16.1	367
4	Clustering algorithms: A comparative approach. PLoS ONE, 2019, 14, e0210236.	1.1	303
5	A Systematic Comparison of Supervised Classifiers. PLoS ONE, 2014, 9, e94137.	1.1	162
6	Mitochondrial Network Size Scaling in Budding Yeast. Science, 2012, 338, 822-824.	6.0	158
7	Identifying the starting point of a spreading process in complex networks. Physical Review E, 2011, 84, 056105.	0.8	153
8	High-resolution episcopic microscopy: a rapid technique for high detailed 3D analysis of gene activity in the context of tissue architecture and morphology. Anatomy and Embryology, 2006, 211, 213-221.	1.5	147
9	Sensory-Related Neural Activity Regulates the Structure of Vascular Networks in the Cerebral Cortex. Neuron, 2014, 83, 1117-1130.	3.8	131
10	Rich-club phenomenon across complex network hierarchies. Applied Physics Letters, 2007, 91, .	1.5	125
11	Studies of <i>aberrant phyllotaxy1</i> Mutants of Maize Indicate Complex Interactions between Auxin and Cytokinin Signaling in the Shoot Apical Meristem Â Â. Plant Physiology, 2009, 150, 205-216.	2.3	124
12	A texture approach to leukocyte recognition. Real Time Imaging, 2004, 10, 205-216.	1.6	123
13	Mechanosensitivity of astrocytes on optimized polyacrylamide gels analyzed by quantitative morphometry. Journal of Physics Condensed Matter, 2010, 22, 194114.	0.7	122
14	Role of centrality for the identification of influential spreaders in complex networks. Physical Review E, 2014, 90, 032812.	0.8	119
15	Keystone species in seed dispersal networks are mainly determined by dietary specialization. Oikos, 2015, 124, 1031-1039.	1.2	117
16	A complex network approach to text summarization. Information Sciences, 2009, 179, 584-599.	4.0	99
17	Using network science and text analytics to produce surveys in a scientific topic. Journal of Informetrics, 2016, 10, 487-502.	1.4	94
18	Urban Street Networks, a Comparative Analysis of Ten European Cities. Environment and Planning B: Planning and Design, 2013, 40, 1071-1086.	1.7	82

#	Article	IF	Citations
19	Complex networks: the key to systems biology. Genetics and Molecular Biology, 2008, 31, 591-601.	0.6	71
20	Vascular contributions to 16p11.2 deletion autism syndrome modeled in mice. Nature Neuroscience, 2020, 23, 1090-1101.	7.1	70
21	Predicting the connectivity of primate cortical networks from topological and spatial node properties. BMC Systems Biology, 2007, 1, 16.	3.0	65
22	Gene Expression Noise in Spatial Patterning: hunchback Promoter Structure Affects Noise Amplitude and Distribution in Drosophila Segmentation. PLoS Computational Biology, 2011, 7, e1001069.	1.5	65
23	Exploring complex networks through random walks. Physical Review E, 2007, 75, 016102.	0.8	63
24	The Hierarchical Backbone of Complex Networks. Physical Review Letters, 2004, 93, 098702.	2.9	61
25	Hierarchical Characterization of Complex Networks. Journal of Statistical Physics, 2006, 125, 841-872.	0.5	61
26	Biological shape characterization for automatic image recognition and diagnosis of protozoan parasites of the genus Eimeria. Pattern Recognition, 2007, 40, 1899-1910.	5.1	59
27	The structure and resilience of financial market networks. Chaos, 2012, 22, 013117.	1.0	58
28	Automatic characterization and classification of ganglion cells from the salamander retina. , 1999, 404, 33-51.		56
29	Knowledge acquisition: A Complex networks approach. Information Sciences, 2017, 421, 154-166.	4.0	56
30	An entropy-based approach to automatic image segmentation of satellite images. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 512-518.	1.2	54
31	Patterns of authors contribution in scientific manuscripts. Journal of Informetrics, 2017, 11, 498-510.	1.4	53
32	Using complex networks for text classification: Discriminating informative and imaginative documents. Europhysics Letters, 2016, 113, 28007.	0.7	50
33	Structure–semantics interplay in complex networks and its effects on the predictability of similarity in texts. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 4406-4419.	1.2	49
34	Epithelial organisation revealed by a network of cellular contacts. Nature Communications, 2011, 2, 526.	5.8	48
35	Extractive summarization using complex networks and syntactic dependency. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 1855-1864.	1.2	46
36	Application and assessment of multiscale bending energy for morphometric characterization of neural cells. Review of Scientific Instruments, 1997, 68, 2177-2186.	0.6	45

#	Article	IF	Citations
37	Approximate von Neumann entropy for directed graphs. Physical Review E, 2014, 89, 052804.	0.8	45
38	Modifier of Cell Adhesion Regulates N-Cadherin-Mediated Cell-Cell Adhesion and Neurite Outgrowth. Journal of Neuroscience, 2005, 25, 281-290.	1.7	44
39	Quantifying the interdisciplinarity of scientific journals and fields. Journal of Informetrics, 2013, 7, 469-477.	1.4	44
40	Probing the Statistical Properties of Unknown Texts: Application to the Voynich Manuscript. PLoS ONE, 2013, 8, e67310.	1.1	44
41	Towards effective planar shape representation with multiscale digital curvature analysis based on signal processing techniques. Pattern Recognition, 1996, 29, 1559-1569.	5.1	43
42	A comparison of morphometric characteristics of sperm from fertile Bos taurus and Bos indicus bulls in Brazil. Animal Reproduction Science, 2005, 85, 105-116.	0.5	43
43	COMPLEX NETWORKS ANALYSIS OF MANUAL AND MACHINE TRANSLATIONS. International Journal of Modern Physics C, 2008, 19, 583-598.	0.8	43
44	On time-varying collaboration networks. Journal of Informetrics, 2013, 7, 371-378.	1.4	43
45	Entropy of weighted recurrence plots. Physical Review E, 2014, 90, 042919.	0.8	43
46	Morphometric differences in a single wing cell can discriminateApis melliferaracial types. Apidologie, 2006, 37, 91-97.	0.9	41
47	Three-feature model to reproduce the topology of citation networks and the effects from authors' visibility on their h-index. Journal of Informetrics, 2012, 6, 427-434.	1.4	41
48	The web of connections between tourism companies: Structure and dynamics. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 4286-4296.	1.2	38
49	Gene Expression Complex Networks: Synthesis, Identification, and Analysis. Journal of Computational Biology, 2011, 18, 1353-1367.	0.8	37
50	Comparing intermittency and network measurements of words and their dependence on authorship. New Journal of Physics, 2011, 13, 123024.	1.2	37
51	A shape analysis framework for neuromorphometry. , 0, .		36
52	Spread of opinions and proportional voting. Physical Review E, 2006, 74, 036112.	0.8	35
53	Correlations between structure and random walk dynamics in directed complex networks. Applied Physics Letters, 2007, 91, 054107.	1.5	35
54	Regulation of Radial Glial Motility by Visual Experience. Journal of Neuroscience, 2009, 29, 14066-14076.	1.7	35

#	Article	IF	Citations
55	Estimating complex cortical networks via surface recordings—A critical note. NeuroImage, 2010, 53, 439-449.	2.1	35
56	Identification of literary movements using complex networks to represent texts. New Journal of Physics, 2012, 14, 043029.	1.2	35
57	Concentric network symmetry grasps authors' styles in word adjacency networks. Europhysics Letters, 2015, 110, 68001.	0.7	35
58	Complex systems: Features, similarity and connectivity. Physics Reports, 2020, 861, 1-41.	10.3	35
59	Complex networks analysis of language complexity. Europhysics Letters, 2012, 100, 58002.	0.7	34
60	Unveiling the Neuromorphological Space. Frontiers in Computational Neuroscience, 2010, 4, 150.	1.2	33
61	Unveiling the relationship between complex networks metrics and word senses. Europhysics Letters, 2012, 98, 18002.	0.7	33
62	On the use of topological features and hierarchical characterization for disambiguating names in collaborative networks. Europhysics Letters, 2012, 99, 48002.	0.7	33
63	Multiple Pathways Analysis of Brain Functional Networks from EEG Signals: An Application to Real Data. Brain Topography, 2011, 23, 344-354.	0.8	32
64	Topological-collaborative approach for disambiguating authors' names in collaborative networks. Scientometrics, 2015, 102, 465-485.	1.6	31
65	Representation of texts as complex networks: a mesoscopic approach. Journal of Complex Networks, 2018, 6, 125-144.	1.1	29
66	Thermodynamic characterization of networks using graph polynomials. Physical Review E, 2015, 92, 032810.	0.8	28
67	Neural cell classification by Wavelets and multiscale curvature. Biological Cybernetics, 1998, 79, 347-360.	0.6	27
68	Characterizing polygonality in biological structures. Physical Review E, 2006, 73, 011913.	0.8	26
69	Modularity and robustness of bone networks. Molecular BioSystems, 2009, 5, 255.	2.9	25
70	Border detection in complex networks. New Journal of Physics, 2009, 11, 063019.	1.2	24
71	Effective number of accessed nodes in complex networks. Physical Review E, 2012, 85, 036105.	0.8	24
72	Topic segmentation via community detection in complex networks. Chaos, 2016, 26, 063120.	1.0	24

#	Article	IF	Citations
73	Texture recognition based on diffusion in networks. Information Sciences, 2016, 364-365, 51-71.	4.0	24
74	The aPKC-CBP Pathway Regulates Post-stroke Neurovascular Remodeling and Functional Recovery. Stem Cell Reports, 2017, 9, 1735-1744.	2.3	24
75	A binary Hough transform and its efficient implementation in a systolic array architecture. Pattern Recognition Letters, 1989, 10, 329-334.	2.6	23
76	Reinforcing the resilience of complex networks. Physical Review E, 2004, 69, 066127.	0.8	23
77	Robust Skeletonization through Exact Euclidean Distance Transform and its Application to Neuromorphometry. Real Time Imaging, 2000, 6, 415-431.	1.6	22
78	Predicting epidemic outbreak from individual features of the spreaders. Journal of Statistical Mechanics: Theory and Experiment, 2012, 2012, P07005.	0.9	22
79	Complex Network Analysis of CA3 Transcriptome Reveals Pathogenic and Compensatory Pathways in Refractory Temporal Lobe Epilepsy. PLoS ONE, 2013, 8, e79913.	1.1	22
80	Rumor propagation with heterogeneous transmission in social networks. Journal of Statistical Mechanics: Theory and Experiment, 2017, 2017, 023401.	0.9	22
81	Self-referred approach to lacunarity. Physical Review E, 2005, 72, 016707.	0.8	21
82	Learning about knowledge: A complex network approach. Physical Review E, 2006, 74, 026103.	0.8	21
83	What are the best concentric descriptors for complex networks?. New Journal of Physics, 2007, 9, 311-311.	1.2	21
84	A complex networks approach for data clustering. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 6174-6183.	1.2	21
85	Pattern formation in a gene network model with boundary shape dependence. Physical Review E, 2006, 73, 031917.	0.8	20
86	Temporal modulation of collective cell behavior controls vascular network topology. ELife, 2016, 5, .	2.8	20
87	Piecewise Linear Segmentation of Digital Contours in O(N. Log(N)) Through a Technique Based on Effective Digital Curvature Estimation. Real Time Imaging, 1995, 1, 409-417.	1.6	19
88	Computer vision based morphometric characterization of neural cells. Review of Scientific Instruments, 1995, 66, 3770-3773.	0.6	19
89	Modular transcriptional repertoire and MicroRNA target analyses characterize genomic dysregulation in the thymus of Down syndrome infants. Oncotarget, 2016, 7, 7497-7533.	0.8	19
90	Maternal high-fat diet in mice induces cerebrovascular, microglial and long-term behavioural alterations in offspring. Communications Biology, 2022, 5, 26.	2.0	19

#	Article	IF	Citations
91	A Percolation Approach to Neural Morphometry and Connectivity. Neuroinformatics, 2003, 1, 065-080.	1.5	18
92	Associative recall in non-randomly diluted neuronal networks. Physica A: Statistical Mechanics and Its Applications, 2003, 330, 37-45.	1.2	18
93	1D and 2D Fourier-based approaches to numeric curvature estimation and their comparative performance assessment. , 2003, 13, 172-197.		17
94	Neuromorphometric characterization with shape functionals. Physical Review E, 2003, 67, 061910.	0.8	17
95	Concentric characterization and classification of complex network nodes: Application to an institutional collaboration network. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 6201-6214.	1.2	17
96	Computer-vision-based extraction of neural dendrograms. Journal of Neuroscience Methods, 1999, 93, 121-131.	1.3	16
97	Objective characterization of the course of the parasellar internal carotid artery using mathematical tools. Surgical and Radiologic Anatomy, 2008, 30, 519-526.	0.6	16
98	Modeling worldwide highway networks. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 374, 22-27.	0.9	16
99	Musical genres: beating to the rhythms of different drums. New Journal of Physics, 2010, 12, 053030.	1.2	16
100	Structure and dynamics of functional networks in child-onset schizophrenia. Clinical Neurophysiology, 2014, 125, 1589-1595.	0.7	16
101	Chain motifs: The tails and handles of complex networks. Physical Review E, 2008, 77, 026106.	0.8	15
102	Complexity and anisotropy in host morphology make populations less susceptible to epidemic outbreaks. Journal of the Royal Society Interface, 2010, 7, 1083-1092.	1.5	15
103	Resilience of protein–protein interaction networks as determined by their large-scale topological features. Molecular BioSystems, 2011, 7, 1263.	2.9	15
104	Automated high-content morphological analysis of muscle fiber histology. Computers in Biology and Medicine, 2015, 63, 28-35.	3.9	15
105	Correlating thalamocortical connectivity and activity. Applied Physics Letters, 2006, 89, 013903.	1.5	14
106	Community Structure Analysis of Transcriptional Networks Reveals Distinct Molecular Pathways for Early- and Late-Onset Temporal Lobe Epilepsy with Childhood Febrile Seizures. PLoS ONE, 2015, 10, e0128174.	1.1	14
107	Automatic Network Fingerprinting through Single-Node Motifs. PLoS ONE, 2011, 6, e15765.	1.1	14
108	L-percolations of complex networks. Physical Review E, 2004, 70, 056106.	0.8	13

#	Article	IF	Citations
109	A spectral framework for sperm shape characterization. Computers in Biology and Medicine, 2005, 35, 463-473.	3.9	13
110	Complex channel networks of bone structure. Applied Physics Letters, 2006, 88, 033903.	1.5	13
111	Three‐dimensional description and mathematical characterization of the parasellar internal carotid artery in human infants. Journal of Anatomy, 2008, 212, 636-644.	0.9	13
112	Protein lethality investigated in terms of long range dynamical interactions. Molecular BioSystems, 2009, 5, 385.	2.9	13
113	Performance Improvement of Tomographic Image Reconstruction Based on DSP Processors. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 3295-3304.	2.4	13
114	Accessibility in networks: A useful measure for understanding social insect nest architecture. Chaos, Solitons and Fractals, 2013, 46, 38-45.	2.5	13
115	Effects of threshold on the topology of gene co-expression networks. Molecular BioSystems, 2017, 13, 2024-2035.	2.9	13
116	Characterization of subgraph relationships and distribution in complex networks. New Journal of Physics, 2009, 11, 013058.	1.2	12
117	A structure‐dynamic approach to cortical organization: Number of paths and accessibility. Journal of Neuroscience Methods, 2009, 183, 57-62.	1.3	12
118	Identifying the borders of mathematical knowledge. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 325202.	0.7	12
119	Communication Structure of Cortical Networks. Frontiers in Computational Neuroscience, 2011, 5, 6.	1.2	12
120	Fast long-range connections in transportation networks. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 1626-1629.	0.9	12
121	Analysis of Scanning Electron Microscopy Images To Investigate Adsorption Processes Responsible for Detection of Cancer Biomarkers. ACS Applied Materials & Interfaces, 2017, 9, 5885-5890.	4.0	12
122	The dynamics of knowledge acquisition via self-learning in complex networks. Chaos, 2018, 28, 083106.	1.0	12
123	Spacing ratio characterization of the spectra of directed random networks. Physical Review E, 2020, 102, 062305.	0.8	12
124	Coincidence complex networks. Journal of Physics Complexity, 2022, 3, 015012.	0.9	12
125	A parallel implementation of exact Euclidean distance transform based on exact dilations. Microprocessors and Microsystems, 2004, 28, 107-113.	1.8	11
126	An integrated approach to the characterization of cell movement. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2005, 68A, 92-100.	1.1	11

#	Article	IF	Citations
127	Voronoi analysis uncovers relationship between mosaics of normally placed and displaced amacrine cells in the thraira retina. Neuroinformatics, 2007, 5, 59-77.	1.5	11
128	Modeling and Evaluating Summaries Using Complex Networks. Lecture Notes in Computer Science, 2006, , 1-10.	1.0	11
129	AGN Simulation and Validation Model. Lecture Notes in Computer Science, 2008, , 169-173.	1.0	11
130	Border trees of complex networks. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 224005.	0.7	10
131	Extensive cross-talk and global regulators identified from an analysis of the integrated transcriptional and signaling network in Escherichia coli. Molecular BioSystems, 2012, 8, 3028.	2.9	10
132	Realistic neuromorphic models and their application to neural reorganization simulations. Neurocomputing, 2002, 48, 555-571.	3.5	9
133	Morphological Homogeneity of Neurons: Searching for Outlier Neuronal Cells. Neuroinformatics, 2012, 10, 379-389.	1.5	9
134	Statistical physics approach to quantifying differences in myelinated nerve fibers. Scientific Reports, 2014, 4, 4511.	1.6	9
135	Concentric network symmetry. Information Sciences, 2016, 333, 61-80.	4.0	9
136	Connecting network science and information theory. Physica A: Statistical Mechanics and Its Applications, 2019, 515, 641-648.	1.2	9
137	A biochemical network modeling of a whole-cell. Scientific Reports, 2020, 10, 13303.	1.6	9
138	Automatic detection of the parasite *Trypanosoma cruzi* in blood smears using a machine learning approach applied to mobile phone images. PeerJ, 0, 10, e13470.	0.9	9
139	Morphological Hopfield Networks. Brain and Mind, 2003, 4, 91-105.	0.6	8
140	Topographical maps as complex networks. Physical Review E, 2005, 71, 021901.	0.8	8
141	Using Complex Networks for Language Processing: The Case of Summary Evaluation. , 2006, , .		8
142	A new method for quantifying three-dimensional interactions between biological structures. Journal of Anatomy, 2007, 210, 221-231.	0.9	8
143	Hierarchical spatial organization of geographical networks. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 224004.	0.7	8
144	Particle Systems Analysis by Using Skeletonization and Exact Dilations. Particle and Particle Systems Characterization, 1999, 16, 273-277.	1.2	7

#	Article	IF	Citations
145	Nuclear morphometry of neoplastic cells as a method for diagnosis of histiocytoma, mastocytoma and transmissible venereal tumor in dogs. Real Time Imaging, 2004, 10, 197-204.	1.6	7
146	Statistical mechanics characterization of neuronal mosaics. Applied Physics Letters, 2005, 86, 093901.	1.5	7
147	SZNAJD COMPLEX NETWORKS. International Journal of Modern Physics C, 2005, 16, 1001-1016.	0.8	7
148	Entropy-Based Approach to Analyze and Classify Mineral Aggregates. Journal of Computing in Civil Engineering, 2011, 25, 75-84.	2.5	7
149	A quantitative approach to painting styles. Physica A: Statistical Mechanics and Its Applications, 2015, 417, 110-129.	1.2	7
150	Morphological Neuron Classification Based on Dendritic Tree Hierarchy. Neuroinformatics, 2019, 17, 147-161.	1.5	7
151	Characterization and comparison of large directed networks through the spectra of the magnetic Laplacian. Chaos, 2020, 30, 073141.	1.0	7
152	A Biologically-Motivated Approach to Image Representation and Its Application to Neuromorphology. Lecture Notes in Computer Science, 2000, , 407-416.	1.0	7
153	ACTIVE PERCOLATION ANALYSIS OF PYRAMIDAL NEURONS OF SOMATOSENSORY CORTEX: A COMPARISON OF WILD TYPE AND p21H-RasVal12 TRANSGENIC MICE. International Journal of Modern Physics C, 2005, 16, 655-667.	0.8	6
154	Analyzing trails in complex networks. Physical Review E, 2007, 76, 046106.	0.8	6
155	Connectivity and dynamics of neuronal networks as defined by the shape of individual neurons. New Journal of Physics, 2009, 11, 103053.	1.2	6
156	Generalized connectivity between any two nodes in a complex network. Physical Review E, 2010, 81, 036113.	0.8	6
157	Shape, connectedness and dynamics in neuronal networks. Journal of Neuroscience Methods, 2013, 220, 100-115.	1.3	6
158	The relationship between structure and function in locally observed complex networks. New Journal of Physics, 2013, 15, 013048.	1.2	6
159	How coupled are capillary electrophoresis and mass spectrometry?. Scientometrics, 2021, 126, 3841-3851.	1.6	6
160	Statistical Characterization of Morphological Features of Layer-by-Layer Polymer Films by Image Analysis. Journal of Nanoscience and Nanotechnology, 2003, 3, 257-261.	0.9	6
161	Optimized approach to multiscale skeleton generation. Optical Engineering, 2001, 40, 1752.	0.5	5
162	Estimating derivatives and curvature of open curves. Pattern Recognition, 2002, 35, 2445-2451.	5.1	5

#	Article	IF	Citations
163	Signal propagation in cortical networks: A Digital Signal Processing Approach. Frontiers in Neuroinformatics, 2009, 3, 24.	1.3	5
164	Characterizing topological and dynamical properties of complex networks without border effects. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 1771-1778.	1.2	5
165	An image processing approach to analyze morphological features of microscopic images of muscle fibers. Computerized Medical Imaging and Graphics, 2014, 38, 803-814.	3.5	5
166	Minimal paths between communities induced by geographical networks. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 023403.	0.9	5
167	How integrated are theoretical and applied physics?. Scientometrics, 2018, 116, 1113-1121.	1.6	5
168	Comparison of Different Spike Train Synchrony Measures Regarding Their Robustness to Erroneous Data From Bicuculline-Induced Epileptiform Activity. Neural Computation, 2020, 32, 887-911.	1.3	5
169	Texture Discrimination Using Hierarchical Complex Networks. , 2008, , 95-102.		5
170	Bioinformatics: perspectives for the future. Genetics and Molecular Research, 2004, 3, 564-74.	0.3	5
171	Semiautomated analysis of clay samples. Review of Scientific Instruments, 1991, 62, 2163-2166.	0.6	4
172	Enhanced multiscale skeletons. Real Time Imaging, 2003, 9, 315-319.	1.6	4
173	Biological shape analysis by digital curvature. Pattern Recognition, 2004, 37, 515-524.	5.1	4
174	STRENGTH DISTRIBUTION IN DERIVATIVE NETWORKS. International Journal of Modern Physics C, 2005, 16, 1097-1105.	0.8	4
175	Fast and accurate nonlinear spectral method for image recognition and registration. Applied Physics Letters, 2006, 89, 174102.	1.5	4
176	DIVERSITY OF CORTICAL STATES AT NONEQUILIBRIUM SIMULATED BY THE ANTI-FERROMAGNETIC ISING MODEL UNDER METROPOLIS DYNAMICS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 2387-2398.	0.7	4
177	Jararhagin, a snake venom metalloprotease-disintegrin, activates the Rac1 GTPase and stimulates neurite outgrowth in neuroblastoma cells. Toxicon, 2008, 52, 380-384.	0.8	4
178	A quantitative approach to evolution of music and philosophy. Journal of Statistical Mechanics: Theory and Experiment, 2012, 2012, P08010.	0.9	4
179	Random walks in directed modular networks. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P12003.	0.9	4
180	Seeking maximum linearity of transfer functions. Review of Scientific Instruments, 2016, 87, 124701.	0.6	4

#	Article	IF	Citations
181	An image analysis approach to text analytics based on complex networks. Physica A: Statistical Mechanics and Its Applications, 2018, 510, 110-120.	1.2	4
182	Power laws in the Roman Empire: a survival analysis. Royal Society Open Science, 2021, 8, 210850.	1.1	4
183	Î£ynergosâ€"Synergetic Vision Research. Real-Time Systems, 2001, 21, 7-41.	1.1	3
184	Inferring shape evolution. Pattern Recognition Letters, 2003, 24, 1005-1014.	2.6	3
185	Parallel implementation of exact dilations and multi-scale skeletonization. Real Time Imaging, 2003, 9, 163-169.	1.6	3
186	Characterizing width uniformity by wave propagation. Physical Review E, 2003, 68, 056704.	0.8	3
187	Biological sequence analysis through the one-dimensional percolation transform and its enhanced version. Bioinformatics, 2005, 21, 608-616.	1.8	3
188	ON THE EFFECTS OF GEOGRAPHICAL CONSTRAINTS ON TASK EXECUTION IN COMPLEX NETWORKS. International Journal of Modern Physics C, 2008, 19, 847-853.	0.8	3
189	Comparison of the interactomic networks of different species in terms of accessibility. Molecular BioSystems, 2009, 6, 234-240.	2.9	3
190	Multiscale Curvature Analysis of Asphaltic Aggregate Particles. Journal of Computing in Civil Engineering, 2010, 24, 506-513.	2.5	3
191	Opinion Discrimination Using Complex Network Features. Communications in Computer and Information Science, 2011, , 154-162.	0.4	3
192	A framework for analyzing the relationship between gene expression and morphological, topological, and dynamical patterns in neuronal networks. Journal of Neuroscience Methods, 2015, 245, 1-14.	1.3	3
193	A framework for evaluating complex networks measurements. Europhysics Letters, 2015, 110, 68002.	0.7	3
194	Negative feedback, linearity and parameter invariance in linear electronics. Electrical Engineering, 2018, 100, 1159-1181.	1.2	3
195	Hyperfiltration in ubiquitin C-terminal hydrolase L1-deleted mice. Clinical Science, 2018, 132, 1453-1470.	1.8	3
196	Straight Line Detection as an Optimization Problem: An Approach Motivated by the Jumping Spider Visual System. Lecture Notes in Computer Science, 2000, , 32-41.	1.0	3
197	Bone histomorphometry of broilers submitted to different phosphorus sources in growing and finisher rations. Pesquisa Agropecuaria Brasileira, 2006, 41, 1517-1523.	0.9	3
198	Unbiased analysis of mouse brain endothelial networks from two- or three-dimensional fluorescence images. Neurophotonics, 2022, 9, .	1.7	3

#	Article	IF	Citations
199	Effective Image Segmentation with Flexible ICM-Based Markov Random Fields in Distributed Systems of Personal Computers. Real Time Imaging, 2000, 6, 283-295.	1.6	2
200	STRUCTURE AND DYNAMICS: THE TRANSITION FROM NONEQUILIBRIUM TO EQUILIBRIUM IN INTEGRATE-AND-FIRE DYNAMICS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250174.	0.7	2
201	Study of cerebral gene expression densities using Voronoi analysis. Journal of Neuroscience Methods, 2012, 203, 212-219.	1.3	2
202	Asymmetry and irregularity border as discrimination factor between melanocytic lesions. , 2015, , .		2
203	A diffusion-based approach to obtaining the borders of urban areas. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 053205.	0.9	2
204	A complex network approach to cloud computing. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 023402.	0.9	2
205	Characterizing BJTs using the Early voltage in the forward active mode. International Journal of Circuit Theory and Applications, 2018, 46, 978-986.	1.3	2
206	Gene regulatory and signaling networks exhibit distinct topological distributions of motifs. Physical Review E, 2018, 97, 042417.	0.8	2
207	Topology and dynamics in complex networks: The role of edge reciprocity. Europhysics Letters, 2018, 122, 26001.	0.7	2
208	The Dynamics of Biological Evolution and the Importance of Spatial Relations and Shapes. , 1999, , 1-14.		2
209	Modeling Highway Networks with Path-Geographical Transformations. Studies in Computational Intelligence, 2009, , 115-126.	0.7	2
210	Structure-Dynamics Interplay in Directed Complex Networks with Border Effects. Communications in Computer and Information Science, 2011, , 46-56.	0.4	2
211	Methods for Gene Co-expression Network Visualization and Analysis. , 2022, , 143-163.		2
212	Bit reversal for the TMS32010 fast Fourier transform calculation. Microprocessors and Microsystems, 1989, 13, 445-448.	1.8	1
213	Small Camera Movements as a Means of Reducing the Amount of Broken and False Detected Lines in Hough Transform. Real Time Imaging, 1996, 2, 181-185.	1.6	1
214	Real-Time Imaging and Vision? The Web Knows about it. Real Time Imaging, 1996, 2, 225-230.	1.6	1
215	MATCOM Integrates MATLAB Resources Into Standalone Applications. Computers in Physics, 1998, 12, 460.	0.6	1
216	A possible mechanism of curvature coding in early vision. Neurocomputing, 2005, 65-66, 117-124.	3.5	1

#	Article	IF	Citations
217	THE EFFECT OF CORTICO-THALAMIC CONNECTIONS ON THE DIVERSITY OF CORTICAL ACTIVATIONS AS MODELED BY THE ISING MODEL. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 1321-1334.	0.7	1
218	On the efficiency of data representation on the modeling and characterization of complex networks. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 2172-2180.	1.2	1
219	A decaying factor accounts for contained activity in neuronal networks with no need of hierarchical or modular organization. Journal of Statistical Mechanics: Theory and Experiment, 2012, 2012, P11018.	0.9	1
220	Supervised Classification of Basaltic Aggregate Particles Based on Texture Properties. Journal of Computing in Civil Engineering, 2013, 27, 177-182.	2.5	1
221	Biological network border detection. Integrative Biology (United Kingdom), 2017, 9, 947-955.	0.6	1
222	Problem-solving using complex networks. European Physical Journal B, 2019, 92, 1.	0.6	1
223	On Complexity and the Prospects for Scientific Advancement. Revista Brasileira De Ensino De Fisica, 2021, 43, .	0.2	1
224	Contrarian effects and echo chamber formation in opinion dynamics. Journal of Physics Complexity, 2021, 2, 025010.	0.9	1
225	Enriching and analyzing small citation networks: A case study on transistorâ€™s history. Physica A: Statistical Mechanics and Its Applications, 2021, 573, 125901.	1.2	1
226	Methods for Gene Coexpression Network Visualization and Analysis. , 2014, , 79-94.		1
227	Analysis and Synthesis of Morphologically Realistic Neural Networks. , 2019, , 505-528.		1
228	<title>Depth from (de)focus by local transform</title>. , 2004, , .		0
229	Determining the branchings of 3D structures from respective 2D projections. Computer Graphics and Image Processing (SIBGRAPI), Proceedings of the Brazilian Symposium on, 2006, , .	0.0	0
230	Systems Biology through complex networks, signal processing, image analysis, and artificial intelligence. , 2009, , .		0
231	Evaluating links through spectral decomposition. Journal of Statistical Mechanics: Theory and Experiment, 2012, 2012, P01015.	0.9	0
232	A methodology to infer gene networks from spatial patterns of expression â€" an application to fluorescence in situ hybridization images. Molecular BioSystems, 2013, 9, 1926.	2.9	0
233	Data-oriented neuron classification from their parts. , 2016, , .		0
234	A pattern recognition approach to transistor array parameter variance. Physica A: Statistical Mechanics and Its Applications, 2018, 499, 176-185.	1.2	0

#	Article	IF	Citations
235	The impact of Interconnecting Topologies on SOM Neural Networks. , 2018, , .		0
236	Characterizing the Trabecular Bone Tissue of the Toco Toucan Bill. , 2018, , .		0
237	Syntonets: toward a harmony-inspired general model of complex networks. European Physical Journal B, 2020, 93, 1.	0.6	0
238	Gland context networks: a novel approach for improving prostate cancer identification. Computerized Medical Imaging and Graphics, 2021, 94, 101999.	3.5	0
239	Editorial - Special section on Bioinformatics. Genetics and Molecular Biology, 2004, 27, 604-604.	0.6	0
240	Detecting and Characterizing the Modular Structure of the Yeast Transcription Network. Studies in Computational Intelligence, 2009, , 35-46.	0.7	0
241	Panel Summary: Symbolism and Connectionism Paradigms. , 1999, , 185-194.		0
242	On hypercomplex networks. Physica A: Statistical Mechanics and Its Applications, 2022, 591, 126714.	1.2	0
243	Topographical maps of orientation specificity. Biological Cybernetics, 1994, 71, 537-546.	0.6	0