

Regino Criado

List of Publications by Year in descending order

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64
papers

3,594
citations

471509

17
h-index

138484

58
g-index

70
all docs

70
docs citations

70
times ranked

3136
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling Bitcoin plus Ethereum as an Open System of Systems of Public Blockchains to Improve Their Resilience against Intentional Risk. Electronics (Switzerland), 2022, 11, 241.	3.1	2
2	Enriched line graph: A new structure for searching language collocations. Chaos, Solitons and Fractals, 2021, 142, 110509.	5.1	4
3	Identity and Access Management Resilience against Intentional Risk for Blockchain-Based IOT Platforms. Electronics (Switzerland), 2021, 10, 378.	3.1	7
4	Visibility Graph Analysis of IOTA and IoTeX Price Series: An Intentional Risk-Based Strategy to Use 5G for IoT. Electronics (Switzerland), 2021, 10, 2282.	3.1	7
5	A new approach to combine multiplex networks and time series attributes: Building intrusion detection systems (IDS) in cybersecurity. Chaos, Solitons and Fractals, 2021, 150, 111143.	5.1	15
6	On PageRank versatility for multiplex networks: properties and some useful bounds. Mathematical Methods in the Applied Sciences, 2020, 43, 8158-8176.	2.3	4
7	Non-backtracking PageRank: From the classic model to hashimoto matrices. Chaos, Solitons and Fractals, 2019, 126, 283-291.	5.1	15
8	On the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" id="d1e140" altimg="si5.gif" \rangle \langle \text{mml:mi} \rangle \hat{\pm} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -nonbacktracking centrality for complex networks: Existence and limit cases. Journal of Computational and Applied Mathematics, 2019, 350, 35-45.	2.0	2
9	Sharp estimates for the personalized Multiplex PageRank. Journal of Computational and Applied Mathematics, 2018, 330, 1030-1040.	2.0	12
10	On the spectrum of two-layer approach and Multiplex PageRank. Journal of Computational and Applied Mathematics, 2018, 344, 161-172.	2.0	1
11	Credit Card Fraud Detection through Parenclitic Network Analysis. Complexity, 2018, 2018, 1-9.	1.6	38
12	On the edgesâ€™ PageRank and line graphs. Chaos, 2018, 28, 075503.	2.5	8
13	Line graphs for a multiplex network. Chaos, 2016, 26, 065309.	2.5	10
14	A biplex approach to PageRank centrality: From classic to multiplex networks. Chaos, 2016, 26, 065301.	2.5	44
15	Introduction to Focus Issue: Complex Dynamics in Networks, Multilayered Structures and Systems. Chaos, 2016, 26, 065101.	2.5	3
16	The topology of card transaction money flows. Physica A: Statistical Mechanics and Its Applications, 2016, 462, 134-140.	2.6	8
17	Mathematical modeling and computational methods. Journal of Computational and Applied Mathematics, 2016, 291, 1-4.	2.0	5
18	On graphs associated to sets of rankings. Journal of Computational and Applied Mathematics, 2016, 291, 497-508.	2.0	5

#	ARTICLE	IF	CITATIONS
19	Synchronization in dynamical networks with unconstrained structure switching. <i>Physical Review E</i> , 2015, 92, 062819.	2.1	16
20	Intentional Risk Management through Complex Networks Analysis. <i>SpringerBriefs in Optimization</i> , 2015, , .	0.3	12
21	Mathematical Foundations: Complex Networks and Graphs (A Review). <i>SpringerBriefs in Optimization</i> , 2015, , 9-36.	0.3	3
22	Random Walkers. <i>SpringerBriefs in Optimization</i> , 2015, , 37-51.	0.3	0
23	Editorial on "Multiplex networks: Structure, dynamics and applications". <i>Chaos, Solitons and Fractals</i> , 2015, 72, 1-3.	5.1	4
24	A Perron-Frobenius theory for block matrices associated to a multiplex network. <i>Chaos, Solitons and Fractals</i> , 2015, 72, 77-89.	5.1	16
25	Comparing series of rankings with ties by using complex networks: An analysis of the Spanish stock market (IBEX-35 index). <i>Networks and Heterogeneous Media</i> , 2015, 10, 101-125.	1.1	3
26	Efficient algorithms for estimating loss of information in a complex network: Applications to intentional risk analysis. <i>Networks and Heterogeneous Media</i> , 2015, 10, 195-208.	1.1	16
27	Towards the Implementation of the Model. <i>SpringerBriefs in Optimization</i> , 2015, , 103-120.	0.3	0
28	Intentional Risk and Cyber-Security: A Motivating Introduction. <i>SpringerBriefs in Optimization</i> , 2015, , 1-8.	0.3	0
29	The Role of Accessibility in the Static and Dynamic Risk Computation. <i>SpringerBriefs in Optimization</i> , 2015, , 53-63.	0.3	0
30	Mathematical Model II: Dynamic Intentional Risk. <i>SpringerBriefs in Optimization</i> , 2015, , 99-102.	0.3	0
31	Mathematical Model I: Static Intentional Risk. <i>SpringerBriefs in Optimization</i> , 2015, , 65-98.	0.3	0
32	Preface: "New trends, models and applications in complex and multiplex networks". <i>Networks and Heterogeneous Media</i> , 2015, 10, .	1.1	0
33	Centralities of a network and its line graph: an analytical comparison by means of their irregularity. <i>International Journal of Computer Mathematics</i> , 2014, 91, 304-314.	1.8	22
34	The structure and dynamics of multilayer networks. <i>Physics Reports</i> , 2014, 544, 1-122.	25.6	2,469
35	Eigenvector centrality of nodes in multiplex networks. <i>Chaos</i> , 2013, 23, 033131.	2.5	207
36	A new method for comparing rankings through complex networks: Model and analysis of competitiveness of major European soccer leagues. <i>Chaos</i> , 2013, 23, 043114.	2.5	29

#	ARTICLE	IF	CITATIONS
37	Controlling centrality in complex networks. Scientific Reports, 2012, 2, 218.	3.3	60
38	A mathematical model for networks with structures in the mesoscale. International Journal of Computer Mathematics, 2012, 89, 291-309.	1.8	47
39	Structural Vulnerability and Robustness in Complex Networks: Different Approaches and Relationships Between them. Springer Optimization and Its Applications, 2012, , 3-36.	0.9	15
40	A POST-PROCESSING METHOD FOR INTEREST POINT LOCATION IN IMAGES BY USING WEIGHTED LINE-GRAPH COMPLEX NETWORKS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250163.	1.7	8
41	Interest point detection in images using complex network analysis. Journal of Computational and Applied Mathematics, 2012, 236, 2975-2980.	2.0	9
42	Structural properties of the line-graphs associated to directed networks. Networks and Heterogeneous Media, 2012, 7, 373-384.	1.1	7
43	Preface: Mesoscales and evolution in complex networks: Applications and related topics. Networks and Heterogeneous Media, 2012, 7, i-iii.	1.1	0
44	Evolutionary games defined at the network mesoscale: The Public Goods game. Chaos, 2011, 21, 016113.	2.5	105
45	Analytical relationships between metric and centrality measures of a network and its dual. Journal of Computational and Applied Mathematics, 2011, 235, 1775-1780.	2.0	20
46	Introduction to Focus Issue: Mesoscales in Complex Networks. Chaos, 2011, 21, 016101.	2.5	24
47	HYPERSTRUCTURES, A NEW APPROACH TO COMPLEX SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 877-883.	1.7	34
48	(\bar{r}, p, q)-vulnerabilities: A unified approach to network robustness. Chaos, 2009, 19, 013133.	2.5	3
49	Improvements in performance and security for complex networks. International Journal of Computer Mathematics, 2009, 86, 209-218.	1.8	4
50	VULNERABILITY AND FALL OF EFFICIENCY IN COMPLEX NETWORKS: A NEW APPROACH WITH COMPUTATIONAL ADVANTAGES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 727-735.	1.7	8
51	A NODE-BASED MULTISCALE VULNERABILITY OF COMPLEX NETWORKS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 703-710.	1.7	8
52	Probabilistic analysis of efficiency and vulnerability in the Erdős-Rényi model. International Journal of Computer Mathematics, 2008, 85, 411-419.	1.8	2
53	EFFICIENCY, VULNERABILITY AND COST: AN OVERVIEW WITH APPLICATIONS TO SUBWAY NETWORKS WORLDWIDE. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 2289-2301.	1.7	36
54	Multiscale vulnerability of complex networks. Chaos, 2007, 17, 043110.	2.5	62

#	ARTICLE	IF	CITATIONS
55	Choosing a leader on a complex network. Journal of Computational and Applied Mathematics, 2007, 204, 10-17.	2.0	17
56	Asymptotic estimates for efficiency, vulnerability and cost for random networks. Journal of Computational and Applied Mathematics, 2007, 204, 166-171.	2.0	4
57	Optimal communication schemes in a complex network: From trees to bottleneck networks. European Physical Journal: Special Topics, 2007, 146, 145-154.	2.6	3
58	New results on computable efficiency and its stability for complex networks. Journal of Computational and Applied Mathematics, 2006, 192, 59-74.	2.0	30
59	A generator of pseudo-random numbers sequences with a very long period. Mathematical and Computer Modelling, 2005, 42, 809-816.	2.0	15
60	On the stability of exponential fitting BDF algorithms. Journal of Computational and Applied Mathematics, 2005, 175, 183-194.	2.0	23
61	Effective measurement of network vulnerability under random and intentional attacks. Mathematical Modelling and Algorithms, 2005, 4, 307-316.	0.5	43
62	Jordan Normal Form via Elementary Transformations. SIAM Review, 1998, 40, 947-956.	9.5	5
63	Unification: Nothing but the Solution of a System of Linear Equations. Fundamenta Informaticae, 1997, 32, 267-280.	0.4	3
64	SYNTACTIC ELEMENTS OF DECLARATIVE PROGRAMMING: SYMBOLIC LINEAR EQUATIONS. Fundamenta Informaticae, 1996, 25, 39-48.	0.4	3