Ljiljana Trajkovic

List of Publications by Year
in descending order

79 papers	752 citations	687363 13 h-index	677142 22 g-index
81 all docs	81 docs citations	81 times ranked	468 citing authors

#	Article	IF	Citations
1	Virtual Network Embedding via Monte Carlo Tree Search. IEEE Transactions on Cybernetics, 2018, 48, 510-521.	9.5	101
2	Brain-Inspired Systems: A Transdisciplinary Exploration on Cognitive Cybernetics, Humanity, and Systems Science Toward Autonomous Artificial Intelligence. IEEE Systems, Man, and Cybernetics Magazine, 2020, 6, 6-13.	1.4	48
3	Analysis of Public Safety Traffic on Trunked Land Mobile Radio Systems. IEEE Journal on Selected Areas in Communications, 2004, 22, 1197-1205.	14.0	44
4	KASER: Knowledge Amplification by Structured Expert Randomization. IEEE Transactions on Systems, Man, and Cybernetics, 2004, 34, 2317-2329.	5.0	38
5	Machine learning models for classification of BGP anomalies. , 2012, , .		35
6	Classification of BGP anomalies using decision trees and fuzzy rough sets. , 2014, , .		25
7	Tracking a Maneuvering Target by Multiple Sensors Using Extended Kalman Filter With Nested Probabilistic-Numerical Linguistic Information. IEEE Transactions on Fuzzy Systems, 2020, 28, 346-360.	9.8	25
8	Simulation and Analysis of Packet Loss in User Datagram Protocol Transfers. Journal of Supercomputing, 2001, 20, 175-196.	3.6	24
9	Feature selection for classification of BGP anomalies using Bayesian models. , 2012, , .		24
10	Machine Learning for Detecting Anomalies and Intrusions in Communication Networks. IEEE Journal on Selected Areas in Communications, 2021, 39, 2254-2264.	14.0	23
11	Intelligent Deflection Routing in Buffer-Less Networks. IEEE Transactions on Cybernetics, 2015, 45, 316-327.	9.5	22
12	On the philosophical, cognitive and mathematical foundations of symbiotic autonomous systems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200362.	3.4	21
13	Analysis of Internet Topologies. IEEE Circuits and Systems Magazine, 2010, 10, 48-54.	2.3	17
14	Application of Machine Learning Techniques to Detecting Anomalies in Communication Networks: Datasets and Feature Selection Algorithms. Advances in Information Security, 2018, , 47-70.	1.2	17
15	Detecting BGP anomalies using machine learning techniques. , 2016, , .		16
16	Anonym: A tool for anonymization of the Internet traffic. , 2013, , .		15
17	DC operating points of transistor circuits. Nonlinear Theory and Its Applications IEICE, 2012, 3, 287-300.	0.6	14
18	Systems Science and Engineering Research in the Context of Systems, Man, and Cybernetics: Recollection, Trends, and Future Directions. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 5-21.	9.3	14

#	Article	IF	Citations
19	A reinforcement learning-based algorithm for deflection routing in optical burst-switched networks. , 2013, , .		13
20	Group Consensus in Multilayer Networks. IEEE Transactions on Network Science and Engineering, 2020, 7, 2016-2026.	6.4	13
21	Stochastic Modeling and Analysis of Public Electric Vehicle Fleet Charging Station Operations. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 9252-9265.	8.0	11
22	A Tripartite Theory of Trustworthiness for Autonomous Systems. , 2020, , .		11
23	Mobile WiMAX MAC and PHY layer optimization for IPTV. Mathematical and Computer Modelling, 2011, 53, 2119-2135.	2.0	10
24	Simulation and Performance Evaluation of a Public Safety Wireless Network: Case Study. Simulation, 2005, 81, 571-585.	1.8	9
25	Introduction and outline of the special issue on circuits and systems education: experiences, challenges, and views. IEEE Circuits and Systems Magazine, 2009, 9, 27-33.	2.3	9
26	Frontiers of Brain-Inspired Autonomous Systems: How Does Defense R&D Drive the Innovations?. IEEE Systems, Man, and Cybernetics Magazine, 2022, 8, 8-20.	1.4	9
27	Complementary two-transistor circuits and negative differential resistance. IEEE Transactions on Circuits and Systems, 1990, 37, 1258-1266.	0.9	8
28	Analysis of Internet topologies: A historical view. , 2009, , .		8
29	Spectral analysis of Internet topology graphs. , 2010, , .		8
30	Application of Machine Learning Techniques to Detecting Anomalies in Communication Networks: Classification Algorithms. Advances in Information Security, 2018, , 71-92.	1.2	8
31	Collection and characterization of BCNET BGP traffic. , 2011, , .		7
32	Performance evaluation of BGP anomaly classifiers. , 2015, , .		7
33	Global resource capacity algorithm with path splitting for virtual network embedding. , 2016, , .		7
34	Replacing a transistor with a compound transistor. IEEE Transactions on Circuits and Systems, 1988, 35, 1139-1146.	0.9	6
35	Teaching circuits to new generations of engineers. , 2011, , .		6
36	Effect of MRAI timers and routing policies on BGP convergence times. , 2012, , .		6

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37	A Predictive Q-Learning Algorithm for Deflection Routing in Buffer-less Networks. , 2013, , .		6
38	Effect of traffic knowledge on the efficiency of admission-control policies. Computer Communication Review, 1999, 29, 5-34.	1.8	5
39	Packet Error Probability in a Three-Branch Diversity System with Majority Combining. IEEE Communications Letters, 2011, 15, 7-9.	4.1	5
40	RED-f routing protocol for complex networks. , 2012, , .		5
41	Virtual network embeddings in data center networks. , 2016, , .		5
42	Improving Gnutella network performance using synthetic coordinates. , 2006, , .		4
43	Regional views and experiences on circuits and systems education. IEEE Circuits and Systems Magazine, 2009, 9, 33-35.	2.3	4
44	Deflection routing in complex networks. , 2014, , .		4
45	Using resource public key infrastructure for secure border gateway protocol. , 2016, , .		4
46	Theory and applications of complex networks: Advances and challenges. , 2013, , .		3
47	Improving VHT MU-MIMO communications by concatenating long data streams in consecutive groups. , 2015, , .		3
48	Analysis of traffic data from a hybrid satellite-terrestrial network. , 2007, , .		2
49	DETRENDED FLUCTUATION ANALYSIS OF THE TCP-RED ALGORITHM. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 4237-4245.	1.7	2
50	Packet Error Probability in Multi-Path Diversity Scheme with Majority Combining. IEEE Communications Letters, 2013, 17, 1684-1687.	4.1	2
51	Virtual Network Embedding for Switch-Centric Data Center Networks. , 2021, , .		2
52	Finding DC Operating Points of Nonlinear Circuits Using Carleman Linearization. , 2021, , .		2
53	Classifying anomalous events in BGP datasets. , 2016, , .		2
54	TCP with Adaptive Delay and Loss Response for Heterogeneous Networks. , 2007, , .		2

#	ARTICLE	IF	CITATIONS
55	Classifying Denial of Service Attacks Using Fast Machine Learning Algorithms. , 2021, , .		2
56	Stability study of the TCP-RED system using detrended fluctuation analysis. , 2008, , .		1
57	Probabilistic verification of BGP convergence. , 2011, , .		1
58	Multihoming with locator/ID Separation Protocol: An experimental testbed. , 2015, , .		1
59	Opportunities and Initiatives [President's Message]. IEEE Systems, Man, and Cybernetics Magazine, 2015, 1, 6-9.	1.4	1
60	Comparison of Virtualization Algorithms and Topologies for Data Center Networks. , 2017, , .		1
61	Optimal PPDU Duration Algorithm for VHT MU-MIMO Systems. , 2017, , .		1
62	Brain-Machine Interface Systems. IEEE Systems, Man, and Cybernetics Magazine, 2020, 6, 4-8.	1.4	1
63	Guest Editorial Introduction to the Special Section on Network of Cyber-Social Networks: Modeling, Analysis, and Control. IEEE Transactions on Network Science and Engineering, 2020, 7, 686-687.	6.4	1
64	Detection of Denial of Service Attacks Using Echo State Networks. , 2021, , .		1
65	Nonlinear Circuits. , 2005, , 75-81.		0
66	Erratum to â€œAnalysis of Public Safety Traffic on Trunked Land Mobile Radio Systemsâ€. IEEE Journal on Selected Areas in Communications, 2005, 23, 186-186.	14.0	0
67	IEEE IRI 2006 Keynote Speech(III); Efficient Mining of Data through Reuse in a Public Safety Network. , 2006, , .		0
68	Welcome message from the 2007 CAS Society President [President's Message]. IEEE Circuits and Systems Magazine, 2007, 7, 6-38.	2.3	0
69	Introducing new initiatives and projects [President's Message]. IEEE Circuits and Systems Magazine, 2007, 7, 4-4.	2.3	0
70	President's Message - In retrospect and looking forward. IEEE Circuits and Systems Magazine, 2007, 7, 6-55.	2.3	0
71	Parallel Dynamic Voltage and Frequency Scaling for stream decoding using a multicore embedded system. , 2011, , .		0
72	Throughput efficiency of the GBN ARQ scheme with xor packet combining. , 2012, , .		0

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73	Reflections President's Message. IEEE Systems, Man, and Cybernetics Magazine, 2015, 1, 5-7.	1.4	0
74	Welcome to IEEE Systems, Man, and Cybernetics Magazine [President's Message]. IEEE Systems, Man, and Cybernetics Magazine, 2015, 1, 4-5.	1.4	0
75	William (Bill) Almer Gruver [In Memoriam]. IEEE Systems, Man, and Cybernetics Magazine, 2016, 2, 56-56.	1.4	0
76	Soft computing and intelligent systems: Techniques and applications. Journal of Intelligent and Fuzzy Systems, 2018, 34, 1237-1241.	1.4	0
77	Soft computing and intelligent systems: techniques and applications. Journal of Intelligent and Fuzzy Systems, 2020, 38, 6187-6191.	1.4	0
78	IEEE Access Special Section Editorial: Recent Advances on Hybrid Complex Networks: Analysis and Control. IEEE Access, 2021, 9, 95083-95086.	4.2	0
79	Soft computing and intelligent systems: Techniques and applications. Journal of Intelligent and Fuzzy Systems, 2021, , 1-14.	1.4	0