Ljiljana Trajkovic

List of Publications by Year
in descending order

79 papers	752 citations	686830 13 h-index	676716 22 g-index
81 all docs	81 docs citations	81 times ranked	468 citing authors

#	Article	IF	Citations
1	Stochastic Modeling and Analysis of Public Electric Vehicle Fleet Charging Station Operations. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 9252-9265.	4.7	11
2	Frontiers of Brain-Inspired Autonomous Systems: How Does Defense R&D Drive the Innovations?. IEEE Systems, Man, and Cybernetics Magazine, 2022, 8, 8-20.	1.2	9
3	IEEE Access Special Section Editorial: Recent Advances on Hybrid Complex Networks: Analysis and Control. IEEE Access, 2021, 9, 95083-95086.	2.6	0
4	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.	5.9	14
5	Soft computing and intelligent systems: Techniques and applications. Journal of Intelligent and Fuzzy Systems, 2021, , 1-14.	0.8	0
6	Virtual Network Embedding for Switch-Centric Data Center Networks. , 2021, , .		2
7	Machine Learning for Detecting Anomalies and Intrusions in Communication Networks. IEEE Journal on Selected Areas in Communications, 2021, 39, 2254-2264.	9.7	23
8	On the philosophical, cognitive and mathematical foundations of symbiotic autonomous systems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200362.	1.6	21
9	Finding DC Operating Points of Nonlinear Circuits Using Carleman Linearization. , 2021, , .		2
10	Detection of Denial of Service Attacks Using Echo State Networks. , 2021, , .		1
11	Classifying Denial of Service Attacks Using Fast Machine Learning Algorithms. , 2021, , .		2
12	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.	6.5	25
13	Brain-Machine Interface Systems. IEEE Systems, Man, and Cybernetics Magazine, 2020, 6, 4-8.	1.2	1
14	Soft computing and intelligent systems: techniques and applications. Journal of Intelligent and Fuzzy Systems, 2020, 38, 6187-6191.	0.8	0
15	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.	4.1	1
16	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.	1.2	48
17	Group Consensus in Multilayer Networks. IEEE Transactions on Network Science and Engineering, 2020, 7, 2016-2026.	4.1	13
18	A Tripartite Theory of Trustworthiness for Autonomous Systems. , 2020, , .		11

#	Article	IF	Citations
19	Soft computing and intelligent systems: Techniques and applications. Journal of Intelligent and Fuzzy Systems, 2018, 34, 1237-1241.	0.8	0
20	Virtual Network Embedding via Monte Carlo Tree Search. IEEE Transactions on Cybernetics, 2018, 48, 510-521.	6.2	101
21	Application of Machine Learning Techniques to Detecting Anomalies in Communication Networks: Datasets and Feature Selection Algorithms. Advances in Information Security, 2018, , 47-70.	0.9	17
22	Application of Machine Learning Techniques to Detecting Anomalies in Communication Networks: Classification Algorithms. Advances in Information Security, 2018, , 71-92.	0.9	8
23	Comparison of Virtualization Algorithms and Topologies for Data Center Networks. , 2017, , .		1
24	Optimal PPDU Duration Algorithm for VHT MU-MIMO Systems. , 2017, , .		1
25	Detecting BGP anomalies using machine learning techniques. , 2016, , .		16
26	Using resource public key infrastructure for secure border gateway protocol. , 2016, , .		4
27	Global resource capacity algorithm with path splitting for virtual network embedding. , 2016, , .		7
28	Virtual network embeddings in data center networks. , 2016, , .		5
29	William (Bill) Almer Gruver [In Memoriam]. IEEE Systems, Man, and Cybernetics Magazine, 2016, 2, 56-56.	1.2	0
30	Classifying anomalous events in BGP datasets. , 2016, , .		2
31	Reflections President's Message. IEEE Systems, Man, and Cybernetics Magazine, 2015, 1, 5-7.	1.2	0
32	Multihoming with locator/ID Separation Protocol: An experimental testbed. , 2015, , .		1
33	Opportunities and Initiatives [President's Message]. IEEE Systems, Man, and Cybernetics Magazine, 2015, 1, 6-9.	1.2	1
34	Improving VHT MU-MIMO communications by concatenating long data streams in consecutive groups. , 2015, , .		3
35	Intelligent Deflection Routing in Buffer-Less Networks. IEEE Transactions on Cybernetics, 2015, 45, 316-327.	6.2	22
36	Performance evaluation of BGP anomaly classifiers. , 2015, , .		7

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37	Welcome to IEEE Systems, Man, and Cybernetics Magazine [President's Message]. IEEE Systems, Man, and Cybernetics Magazine, 2015, 1, 4-5.	1.2	0
38	Classification of BGP anomalies using decision trees and fuzzy rough sets. , 2014, , .		25
39	Deflection routing in complex networks. , 2014, , .		4
40	Theory and applications of complex networks: Advances and challenges. , 2013, , .		3
41	A Predictive Q-Learning Algorithm for Deflection Routing in Buffer-less Networks. , 2013, , .		6
42	Packet Error Probability in Multi-Path Diversity Scheme with Majority Combining. IEEE Communications Letters, 2013, 17, 1684-1687.	2.5	2
43	Anonym: A tool for anonymization of the Internet traffic. , 2013, , .		15
44	A reinforcement learning-based algorithm for deflection routing in optical burst-switched networks. , 2013, , .		13
45	RED-f routing protocol for complex networks. , 2012, , .		5
46	DC operating points of transistor circuits. Nonlinear Theory and Its Applications IEICE, 2012, 3, 287-300.	0.4	14
47	Feature selection for classification of BGP anomalies using Bayesian models. , 2012, , .		24
48	Effect of MRAI timers and routing policies on BGP convergence times. , 2012, , .		6
49	Throughput efficiency of the GBN ARQ scheme with xor packet combining. , 2012, , .		0
50	Machine learning models for classification of BGP anomalies. , 2012, , .		35
51	Teaching circuits to new generations of engineers. , 2011, , .		6
52	Probabilistic verification of BGP convergence. , 2011, , .		1
53	Packet Error Probability in a Three-Branch Diversity System with Majority Combining. IEEE Communications Letters, 2011, 15, 7-9.	2.5	5
54	Mobile WiMAX MAC and PHY layer optimization for IPTV. Mathematical and Computer Modelling, 2011, 53, 2119-2135.	2.0	10

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55	Parallel Dynamic Voltage and Frequency Scaling for stream decoding using a multicore embedded system. , 2011, , .		0
56	Collection and characterization of BCNET BGP traffic. , 2011, , .		7
57	Spectral analysis of Internet topology graphs. , 2010, , .		8
58	Analysis of Internet Topologies. IEEE Circuits and Systems Magazine, 2010, 10, 48-54.	2.6	17
59	Analysis of Internet topologies: A historical view. , 2009, , .		8
60	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.	2.6	9
61	DETRENDED FLUCTUATION ANALYSIS OF THE TCP-RED ALGORITHM. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 4237-4245.	0.7	2
62	Regional views and experiences on circuits and systems education. IEEE Circuits and Systems Magazine, 2009, 9, 33-35.	2.6	4
63	Stability study of the TCP-RED system using detrended fluctuation analysis. , 2008, , .		1
64	Analysis of traffic data from a hybrid satellite-terrestrial network. , 2007, , .		2
65	Welcome message from the 2007 CAS Society President [President's Message]. IEEE Circuits and Systems Magazine, 2007, 7, 6-38.	2.6	0
66	Introducing new initiatives and projects [President's Message]. IEEE Circuits and Systems Magazine, 2007, 7, 4-4.	2.6	0
67	President's Message - In retrospect and looking forward. IEEE Circuits and Systems Magazine, 2007, 7, 6-55.	2.6	0
68	TCP with Adaptive Delay and Loss Response for Heterogeneous Networks. , 2007, , .		2
69	IEEE IRI 2006 Keynote Speech(III); Efficient Mining of Data through Reuse in a Public Safety Network. , 2006, , .		0
70	Improving Gnutella network performance using synthetic coordinates. , 2006, , .		4
71	Nonlinear Circuits. , 2005, , 75-81.		0
72	Simulation and Performance Evaluation of a Public Safety Wireless Network: Case Study. Simulation, 2005, 81, 571-585.	1.1	9

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73	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.	9.7	0
74	Analysis of Public Safety Traffic on Trunked Land Mobile Radio Systems. IEEE Journal on Selected Areas in Communications, 2004, 22, 1197-1205.	9.7	44
75	KASER: Knowledge Amplification by Structured Expert Randomization. IEEE Transactions on Systems, Man, and Cybernetics, 2004, 34, 2317-2329.	5.5	38
76	Simulation and Analysis of Packet Loss in User Datagram Protocol Transfers. Journal of Supercomputing, 2001, 20, 175-196.	2.4	24
77	Effect of traffic knowledge on the efficiency of admission-control policies. Computer Communication Review, 1999, 29, 5-34.	1.5	5
78	Complementary two-transistor circuits and negative differential resistance. IEEE Transactions on Circuits and Systems, 1990, 37, 1258-1266.	0.9	8
79	Replacing a transistor with a compound transistor. IEEE Transactions on Circuits and Systems, 1988, 35, 1139-1146.	0.9	6