József J Bíró

List of Publications by Year
in descending order

		1306789	1058022
53	332	7	14
papers	citations	h-index	g-index
55	55	55	261
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Navigable networks as Nash equilibria of navigation games. Nature Communications, 2015, 6, 7651.	5.8	58
2	On Shortest Path Representation. IEEE/ACM Transactions on Networking, 2007, 15, 1293-1306.	2.6	29
3	Optimal False-Positive-Free Bloom Filter Design for Scalable Multicast Forwarding. IEEE/ACM Transactions on Networking, 2015, 23, 1832-1845.	2.6	26
4	A Tractable Stochastic Model of Correlated Link Failures Caused by Disasters. , 2018, , .		25
5	Stateless multi-stage dissemination of information: Source routing revisited. , 2012, , .		16
6	Geometric explanation of the rich-club phenomenon in complex networks. Scientific Reports, 2017, 7, 1730.	1.6	15
7	Probabilistic Shared Risk Link Groups Modeling Correlated Resource Failures Caused by Disasters. IEEE Journal on Selected Areas in Communications, 2021, 39, 2672-2687.	9.7	13
8	Fairness in Capacitated Networks: A Polyhedral Approach. , 2007, , .		11
9	Routes Obey Hierarchy in Complex Networks. Scientific Reports, 2017, 7, 7243.	1.6	11
10	Call admission control in generalized processor sharing schedulers with tight deterministic delay bounds. Computer Communications, 2003, 26, 65-78.	3.1	10
11	Worst-Case Deterministic Delay Bounds for Arbitrary Weighted Generalized Processor Sharing Schedulers. Lecture Notes in Computer Science, 2000, , 727-739.	1.0	9
12	Performance bounds for rate envelope multiplexing. Performance Evaluation, 2002, 48, 87-101.	0.9	8
13	Efficient Chernoff-Based Resource Assessment Techniques in Multi-Service Networks. Telecommunication Systems, 2002, 20, 59-80.	1.6	8
14	On the Representability of Arbitrary Path Sets as Shortest Paths: Theory, Algorithms, and Complexity. Lecture Notes in Computer Science, 2004, , 1180-1191.	1.0	8
15	A stochastic extension of network calculus for workload loss examinations. IEEE Communications Letters, 2006, 10, 399-401.	2.5	7
16	Analog neural optimization for ATM resource management. IEEE Journal on Selected Areas in Communications, 1997, 15, 156-164.	9.7	6
17	Behavior of TCP algorithms on ad-hoc networks based on Different Routing Protocols(MANETs) and propagation models. , 2006, , .		6
18	5G exchange for inter-domain resource sharing. , 2016, , .		6

#	Article	IF	Citations
19	Network internal traffic characterization and end-to-end delay bound calculus for generalized processor sharing scheduling discipline. Computer Networks, 2005, 48, 910-940.	3.2	5
20	A Novel Direct Upper Approximation for Workload Loss Ratio in General Buffered Systems. Lecture Notes in Computer Science, 2005, , 718-729.	1.0	5
21	Call admission control algorithms for tandem generalized processor sharing networks. , 0, , .		4
22	Adaptive Bloom filters for multicast addressing. , 2011, , .		4
23	Compact policy routing. , 2011, , .		4
24	Discriminatory Processor Sharing from Optimization Point of View. Lecture Notes in Computer Science, 2013, , 67-80.	1.0	4
25	Parsimonious estimates of bandwidth requirement for quality of service packet networks. Performance Evaluation, 2005, 59, 159-178.	0.9	3
26	Routing-Independent Fairness in Capacitated Networks. , 2007, , .		3
27	Compact policy routing. Distributed Computing, 2013, 26, 309-320.	0.7	3
28	A dataset on human navigation strategies in foreign networked systems. Scientific Data, 2018, 5, 180037.	2.4	3
29	On the Memory Requirement of Hop-by-Hop Routing: Tight Bounds and Optimal Address Spaces. IEEE/ACM Transactions on Networking, 2020, 28, 1353-1363.	2.6	3
30	An optimization neural network model with lossy dynamics and time-varying activation functions. , 0, , .		2
31	Network level call admission control algorithms for generalized processor sharing scheduling discipline. , 0, , .		2
32	Loss ratio approximations in buffered systems with regulated inputs. , 2006, , .		2
33	Novel bandwidth requirement estimation based on exact large deviation asymptotics. Computer Communications, 2010, 33, S152-S156.	3.1	2
34	Reduced information scenario for Shared Segment Protection. , 2013, , .		2
35	A Family of Performance Bounds for QoS Measures in Packet-Based Networks. Lecture Notes in Computer Science, 2004, , 1108-1119.	1.0	2
36	Hyperbolic Trees in Complex Networks. , 2020, , .		2

#	Article	IF	Citations
37	Alternative admission rules based on the many sources asymptotics. , 0, , .		1
38	Hop-by-hop versus end-to-end active measurements. Computer Communications, 2002, 25, 954-963.	3.1	1
39	Towards efficient decision rules for admission control based on the many sources asymptotics. Performance Evaluation, 2003, 53, 209-223.	0.9	1
40	Deductive way of reasoning about the internet AS level topology. Chinese Physics B, 2015, 24, 118901.	0.7	1
41	The role of detours in individual human navigation patterns of complex networks. Scientific Reports, 2020, 10, 1098.	1.6	1
42	Analysis and application of congestion measures. , 0, , .		0
43	Analog neural networks as asymptotically exact dynamic solvers. , 2004, , .		0
44	CAM01-4: Bandwidth Requirement Estimates Based on Asymptotic Loss Performance Analysis with QoS Constraint. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	0
45	A Probabilistic Network Calculus for Characterizing Long-run Network Behavior. , 2006, , .		0
46	Fast algorithms for computing parsimonious estimates of QoS measures. , 2007, , .		0
47	Estimation of Multiplexing Gain on Small Business VoIP Networks. Proceedings - International Symposium on Computers and Communications, 2007, , .	0.0	0
48	Enhanced congestion control in TCP for solving hidden terminal problems in ad hoc wireless networks. Periodica Mathematica Hungarica, 2007, 51, 65.	0.5	0
49	Unicast probing techniques for estimation of shared loss rate. International Journal of Communication Systems, 2007, 20, 613-632.	1.6	0
50	The Skeleton of Hyperbolic Graphs for Greedy Navigation. , 2019, , .		0
51	Workload Loss Examinations with a Novel Probabilistic Extension of Network Calculus. Lecture Notes in Computer Science, 2006, , 533-544.	1.0	0
52	Proximity in the Brain. , 2020, , .		0
53	Analysis of Routing Entropy in Hyperbolic Trees. , 2021, , .		0