JÃ³zsef J BÃ-rÃ³

List of Publications by Year
in descending order

53 papers	**332** citations

1306789

7 h-index	

1058022

14 g-index	

55 all docs	**55** docs citations

55 times ranked	**261** citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Analysis of Routing Entropy in Hyperbolic Trees. , 2021, , .		0
3	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
4	The role of detours in individual human navigation patterns of complex networks. Scientific Reports, 2020, 10, 1098.	1.6	1
5	Proximity in the Brain. , 2020, , .		0
6	Hyperbolic Trees in Complex Networks. , 2020, , .		2
7	The Skeleton of Hyperbolic Graphs for Greedy Navigation. , 2019, , .		0
8	A dataset on human navigation strategies in foreign networked systems. Scientific Data, 2018, 5, 180037.	2.4	3
9	A Tractable Stochastic Model of Correlated Link Failures Caused by Disasters. , 2018, , .		25
10	Geometric explanation of the rich-club phenomenon in complex networks. Scientific Reports, 2017, 7, 1730.	1.6	15
11	Routes Obey Hierarchy in Complex Networks. Scientific Reports, 2017, 7, 7243.	1.6	11
12	5G exchange for inter-domain resource sharing. , 2016, , .		6
13	Deductive way of reasoning about the internet AS level topology. Chinese Physics B, 2015, 24, 118901.	0.7	1
14	Optimal False-Positive-Free Bloom Filter Design for Scalable Multicast Forwarding. IEEE/ACM Transactions on Networking, 2015, 23, 1832-1845.	2.6	26
15	Navigable networks as Nash equilibria of navigation games. Nature Communications, 2015, 6, 7651.	5.8	58
16	Compact policy routing. Distributed Computing, 2013, 26, 309-320.	0.7	3
17	Reduced information scenario for Shared Segment Protection. , 2013, , .		2
18	Discriminatory Processor Sharing from Optimization Point of View. Lecture Notes in Computer Science, 2013, , 67-80.	1.0	4

#	ARTICLE	IF	CITATIONS
19	Stateless multi-stage dissemination of information: Source routing revisited. , 2012, , .		16
20	Adaptive Bloom filters for multicast addressing. , 2011, , .		4
21	Compact policy routing. , 2011, , .		4
22	Novel bandwidth requirement estimation based on exact large deviation asymptotics. Computer Communications, 2010, 33, S152-S156.	3.1	2
23	Fairness in Capacitated Networks: A Polyhedral Approach. , 2007, , .		11
24	Routing-Independent Fairness in Capacitated Networks. , 2007, , .		3
25	Fast algorithms for computing parsimonious estimates of QoS measures. , 2007, , .		0
26	On Shortest Path Representation. IEEE/ACM Transactions on Networking, 2007, 15, 1293-1306.	2.6	29
27	Estimation of Multiplexing Gain on Small Business VoIP Networks. Proceedings - International Symposium on Computers and Communications, 2007, , .	0.0	0
28	Enhanced congestion control in TCP for solving hidden terminal problems in ad hoc wireless networks. Periodica Mathematica Hungarica, 2007, 51, 65.	0.5	0
29	Unicast probing techniques for estimation of shared loss rate. International Journal of Communication Systems, 2007, 20, 613-632.	1.6	0
30	Behavior of TCP algorithms on ad-hoc networks based on Different Routing Protocols(MANETs) and propagation models. , 2006, , .		6
31	CAM01-4: Bandwidth Requirement Estimates Based on Asymptotic Loss Performance Analysis with QoS Constraint. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	0
32	A stochastic extension of network calculus for workload loss examinations. IEEE Communications Letters, 2006, 10, 399-401.	2.5	7
33	A Probabilistic Network Calculus for Characterizing Long-run Network Behavior. , 2006, , .		0
34	Loss ratio approximations in buffered systems with regulated inputs. , 2006, , .		2
35	Workload Loss Examinations with a Novel Probabilistic Extension of Network Calculus. Lecture Notes in Computer Science, 2006, , 533-544.	1.0	0
36	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

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37	Parsimonious estimates of bandwidth requirement for quality of service packet networks. Performance Evaluation, 2005, 59, 159-178.	0.9	3
38	A Novel Direct Upper Approximation for Workload Loss Ratio in General Buffered Systems. Lecture Notes in Computer Science, 2005, , 718-729.	1.0	5
39	Analog neural networks as asymptotically exact dynamic solvers. , 2004, , .		0
40	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
41	A Family of Performance Bounds for QoS Measures in Packet-Based Networks. Lecture Notes in Computer Science, 2004, , 1108-1119.	1.0	2
42	Call admission control in generalized processor sharing schedulers with tight deterministic delay bounds. Computer Communications, 2003, 26, 65-78.	3.1	10
43	Towards efficient decision rules for admission control based on the many sources asymptotics. Performance Evaluation, 2003, 53, 209-223.	0.9	1
44	Performance bounds for rate envelope multiplexing. Performance Evaluation, 2002, 48, 87-101.	0.9	8
45	Hop-by-hop versus end-to-end active measurements. Computer Communications, 2002, 25, 954-963.	3.1	1
46	Efficient Chernoff-Based Resource Assessment Techniques in Multi-Service Networks. Telecommunication Systems, 2002, 20, 59-80.	1.6	8
47	Worst-Case Deterministic Delay Bounds for Arbitrary Weighted Generalized Processor Sharing Schedulers. Lecture Notes in Computer Science, 2000, , 727-739.	1.0	9
48	Analog neural optimization for ATM resource management. IEEE Journal on Selected Areas in Communications, 1997, 15, 156-164.	9.7	6
49	An optimization neural network model with lossy dynamics and time-varying activation functions. , 0, , .		2
50	Analysis and application of congestion measures. , 0, , .		0
51	Alternative admission rules based on the many sources asymptotics. , 0, , .		1
52	Call admission control algorithms for tandem generalized processor sharing networks. , 0, , .		4
53	Network level call admission control algorithms for generalized processor sharing scheduling discipline. , 0, , .		2