Uma Bhattacharya

List of Publications by Year
in descending order

48 papers	210 citations	1684188 5 h-index	1281871 11 g-index
48 all docs	48 docs citations	48 times ranked	128 citing authors

#	Article	IF	Citations
1	On Energy Efficient Survivable Multipath Based Approaches in Space Division Multiplexing Elastic Optical Network: Crosstalk-Aware and Fragmentation-Aware. IEEE Access, 2020, 8, 47344-47356.	4.2	29
2	NOMA inspired multicasting in cognitive radio networks. IET Communications, 2018, 12, 1845-1853.	2.2	24
3	Applications of wireless sensor network in Intelligent Traffic System: A review. , 2011, , .		23
4	A Multipath-Based Survivability Scheme in Energy-Efficient EON. IEEE Communications Letters, 2018, 22, 2024-2027.	4.1	22
5	MoveFree. , 2015, , .		13
6	Load balancing in Cellular Network: A review. , 2012, , .		12
7	Cognitive radio inspired NOMA with SWIPT for green multicasting in next generation wireless networks. , 2019, 92, 223-233.		7
8	On Green Multicasting Over Cognitive Radio Fading Channels. IEEE Transactions on Vehicular Technology, 2018, 67, 5491-5495.	6.3	6
9	A Novel RSCA Scheme for Offline Survivable SDM-EON With Advance Reservation. IEEE Transactions on Network and Service Management, 2022, 19, 804-817.	4.9	6
10	A new scalable optimal topology for multi-hop optical networks. Computer Communications, 2005, 28, 557-570.	5.1	5
11	A survey on regenerator Placement Problem in translucent optical network. , 2014, , .		5
12	New strategies for static routing and wavelength assignment in de Bruijn WDM networks. , 2011, , .		4
13	Heuristic for Routing and Wavelength Assignment in de Bruijn WDM networks based on Graph Decomposition. , 2011, , .		4
14	Efficient dynamic survivable multicasting in WDM mesh networks. , 2018, , .		4
15	Congestion optimized routing in unidirectional de Bruijn WDM networks in presence of node faults. , 2009, , .		3
16	A wavelength assignment algorithm for de Bruijn WDM networks. International Journal of Parallel, Emergent and Distributed Systems, 2011, 26, 477-491.	1.0	3
17	Clar: A Novel Cluster Oriented Agent Based Routing Protocol for Manet. Foundations of Computing and Decision Sciences, 2013, 38, 3-23.	1.2	3
18	RSRP: A Robust Secure Routing Protocol in MANET. Foundations of Computing and Decision Sciences, 2014, 39, 129-154.	1.2	3

#	Article	IF	Citations
19	Smart Mom. , 2015, , .		3
20	An offline cost-efficient strategy for multicast traffic protection in WDM optical mesh networks to aid rapid recovery. Optical Switching and Networking, 2019, 34, 47-57.	2.0	3
21	A new channel reservation scheme to reduce call blocking in cellular networks. , 2011, , .		2
22	Load balancing scheme for wireless cellular networks. , 2013, , .		2
23	Improved algorithms for dynamic routing and wavelength assignment in WDM all-optical mesh networks. , 2014, , .		2
24	Dynamic survivable traffic grooming with effective load balancing in WDM all-optical mesh networks. , 2014, , .		2
25	Optimal power allocation for cognitive radio multicast networks under primary users' outage loss constraint. , 2016, , .		2
26	Spectrum efficiency analysis for multicast services in cognitive radio based wireless networks. CSI Transactions on ICT, 2018, 6, 59-64.	1.0	2
27	An online cost-efficient protection scheme for quick recovery in all-optical WDM mesh networks. Photonic Network Communications, 2018, 35, 20-34.	2.7	2
28	A congestion controlled logical topology for multihop optical networks. , 0, , .		1
29	Channel Assignment in a High-Bandwidth de Bruijn Optical WDM Network. , 2008, , .		1
30	Heuristic routing for reducing congestion in presence of link fault in de Bruijn WDM networks. , 2011, , .		1
31	A secure routing scheme in MANET with CRT based secret sharing. , 2012, , .		1
32	Reducing Call Blocks in Cellular Network with Non-Uniform Traffic Conditions. Foundations of Computing and Decision Sciences, 2014, 39, 301-318.	1.2	1
33	New call and handoff call management scheme for reuse partitioning based cellular systems. , 2014, , .		1
34	SEMRSA. , 2017, , .		1
35	On optimal power allocation for energy efficient multicasting over cognitive radio fading channels. , 2017, , .		1
36	Optimal Power Allocation for Multicasting in Multiple Antenna Cognitive Radio Networks. , 2018, , .		1

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37	GSWA: A Survivable Dynamic Multicast Efficient RWA Scheme in WDM Mesh Networks. , 2018, , .		1
38	SDPM-RSA: An Efficient P-Cycle Based Survivability Scheme for Multicast Sessions in Elastic Optical Networks. , 2018, , .		1
39	An efficient heuristic to minimize number of regenerations in translucent optical network under dynamic scenario. , 2019, , .		1
40	An offline scheme for reducing cost of protection in all-optical WDM mesh networks with fast recovery. International Journal of Parallel, Emergent and Distributed Systems, 2019, 34, 572-593.	1.0	1
41	On survivable energy-efficient and crosstalk-aware routing, spectrum and core allocation schemes for dynamic multiclass traffic in SDM-EONs. Optical Switching and Networking, 2021, 42, 100630.	2.0	1
42	Fault-Tolerant Characteristics of Conflict-Free Permutations in Omega Interconnection Networks. , 0, , .		0
43	Adaptive call admission control scheme with optimal resource allocation for multi-class cellular networks. International Journal of Autonomous and Adaptive Communications Systems, 2015, 8, 353.	0.3	0
44	A high throughput internet access protocol (HTIAP) for moving things in smart cities. , 2016, , .		0
45	Multi-criteria mobile gateway selection approach in vehicular internet. , 2017, , .		0
46	A survey on location management in LTE network. , 2017, , .		0
47	Minimizing Cost of Regeneration at Regeneration Sites–A New Approach for Dynamic Lightpath Establishment in Translucent Optical Networks. IEEE Access, 2020, 8, 4198-4210.	4.2	0
48	CAC DPLB MCN: A Distributed Load Balancing Scheme in Multimedia Mobile Cellular Networks. Foundations of Computing and Decision Sciences, 2016, 41, 261-296.	1.2	0