Bijoy chand Chatterjee

List of Publications by Year
in descending order

71	1,544	430874	330143
papers	**citations**	18	37
		h-index	**g-index**

75	75	75	621
all docs	**docs citations**	**times ranked**	**citing authors**

#	Article	IF	Citations
1	Routing and Spectrum Allocation in Elastic Optical Networks: A Tutorial. IEEE Communications Surveys and Tutorials, 2015, 17, 1776-1800.	39.4	501
2	Fragmentation Problems and Management Approaches in Elastic Optical Networks: A Survey. IEEE Communications Surveys and Tutorials, 2018, 20, 183-210.	39.4	160
3	Priority Based Routing and Wavelength Assignment With Traffic Grooming for Optical Networks. Journal of Optical Communications and Networking, 2012, 4, 480.	4.8	85
4	Route Partitioning Scheme for Elastic Optical Networks With Hitless Defragmentation. Journal of Optical Communications and Networking, 2016, 8, 356.	4.8	58
5	Defragmentation Scheme Based on Exchanging Primary and Backup Paths in 1+1 Path Protected Elastic Optical Networks. IEEE/ACM Transactions on Networking, 2017, 25, 1717-1731.	3.8	44
6	Review and Performance Analysis on Routing and Wavelength Assignment Approaches for Optical Networks. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2013, 30, 12.	3.2	43
7	A subcarrier-slot partition scheme with first-last fit spectrum allocation for elastic optical networks. Computer Networks, 2015, 91, 700-711.	5.1	39
8	A spectrum allocation scheme based on first–last-exact fit policy for elastic optical networks. Journal of Network and Computer Applications, 2016, 68, 164-172.	9.1	38
9	Dispersion-Adaptive First–Last Fit Spectrum Allocation Scheme for Elastic Optical Networks. IEEE Communications Letters, 2016, 20, 696-699.	4.1	35
10	Dynamic routing, spectrum, and modulation-format allocation in mixed-grid optical networks. Journal of Optical Communications and Networking, 2020, 12, 79.	4.8	34
11	Priority Based Dispersion-Reduced Wavelength Assignment for Optical Networks. Journal of Lightwave Technology, 2013, 31, 257-263.	4.6	29
12	Robust Optimization Model for Backup Resource Allocation in Cloud Provider. , 2018, , .		29
13	Cooperative Spectrum Prediction-Driven Sensing for Energy Constrained Cognitive Radio Networks. IEEE Access, 2021, 9, 26107-26118.	4.2	27
14	Holding-Time- and Impairment-Aware Shared Spectrum Allocation in Mixed-Line-Rate Elastic Optical Networks. Journal of Optical Communications and Networking, 2019, 11, 322.	4.8	26
15	Recent research progress on spectrum management approaches in software-defined elastic optical networks. Optical Switching and Networking, 2018, 30, 93-104.	2.0	25
16	Resource Allocation and QoS Guarantees for Real World IP Traffic in Integrated XG-PON and IEEE802.11e EDCA Networks. IEEE Access, 2020, 8, 124883-124893.	4.2	24
17	Proactive Fragmentation Management Scheme Based on Crosstalk-Avoided Batch Processing for Spectrally-Spatially Elastic Optical Networks. IEEE Journal on Selected Areas in Communications, 2021, 39, 2719-2733.	14.0	24
18	Priority-Based Inter-Core and Inter-Mode Crosstalk-Avoided Resource Allocation for Spectrally-Spatially Elastic Optical Networks. IEEE/ACM Transactions on Networking, 2021, 29, 1634-1647.	3.8	22

#	ARTICLE	IF	CITATIONS
19	A Real-Time Delay-Sensitive Communication Approach Based on Distributed Processing. IEEE Access, 2017, 5, 20235-20248.	4.2	21
20	Performance evaluation of spectrum allocation policies for elastic optical networks. , 2015, , .		20
21	Dispersion Based Highest-Modulation-First Last-Fit Spectrum Allocation Scheme for Elastic Optical Networks. IEEE Access, 2018, 6, 59907-59916.	4.2	16
22	SDFA: A Service-Driven Fragmentation-Aware Resource Allocation in Elastic Optical Networks. IEEE Transactions on Network and Service Management, 2022, 19, 353-365.	4.9	14
23	A heuristic priority based wavelength assignment scheme for optical networks. Optik, 2012, 123, 1505-1510.	2.9	13
24	Computational time complexity of allocation problem for distributed servers in real-time applications. , 2016, , .		12
25	Participating-Domain Segmentation Based Delay-Sensitive Distributed Server Selection Scheme. IEEE Access, 2019, 7, 20689-20697.	4.2	12
26	Performance of routing and spectrum allocation approaches for multicast traffic in elastic optical networks. Optical Fiber Technology, 2020, 58, 102247.	2.7	12
27	Defragmentation based on route partitioning in 1Â+Â1 protected elastic optical networks. Computer Networks, 2020, 177, 107317.	5.1	12
28	A QoS-aware wavelength assignment scheme for optical networks. Optik, 2013, 124, 4498-4501.	2.9	11
29	Performance evaluation of first-last-exact fit spectrum allocation policy for elastic optical networks. , 2017, , .		9
30	Modulation-Adaptive Link-Disjoint Path Selection Model for 1 + 1 Protected Elastic Optical Networks. IEEE Access, 2019, 7, 25422-25437.	4.2	9
31	Shared Backup Path Protection-Based Resource Allocation Considering Inter-Core and Inter-Mode Crosstalk for Spectrally-Spatially Elastic Optical Networks. IEEE Communications Letters, 2022, 26, 637-641.	4.1	9
32	Node-Oriented Traffic Prediction and Scheduling Based on Graph Convolutional Network in Metro Optical Networks. , 2021, , .		8
33	Defragmentation Using Reroutable Backup Paths in Toggled 1+1 Path Protected Elastic Optical Networks. , 2018, , .		7
34	Joint Inter-Core Crosstalk- and Intra-Core Impairment-Aware Lightpath Provisioning Model in Space-Division Multiplexing Elastic Optical Networks. IEEE Transactions on Network and Service Management, 2022, 19, 4323-4337.	4.9	7
35	Spectrum Fragmentation Management in Elastic Optical Networks. , 2019, , .		6
36	Design and control in elastic optical networks: Issues, challenges, and research directions. , 2017, , .		5

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37	Performance Analysis of Fairness Oriented Dynamic Bandwidth Algorithm in Integrated Fiber-Wireless Architecture Based on XG-PON and Wi-Fi. , 2018, , .		5
38	Impairment-aware spectrum allocation in elastic optical networks: A dispersion-sensitive approach. Optical Fiber Technology, 2021, 61, 102431.	2.7	5
39	Jointly Inter-Core XT and Impairment Aware Lightpath Provisioning in Elastic Optical Networks. , 2021, , .		5
40	Distributed processing communication scheme for real-time applications considering admissible delay. , 2016, , .		4
41	Knapsack based multicast traffic grooming for optical networks. Optical Switching and Networking, 2018, 27, 40-49.	2.0	4
42	Span power management scheme for rapid lightpath provisioning in multiâ€core fibre networks. Electronics Letters, 2015, 51, 76-78.	1.0	3
43	Instantaneous recovery route design scheme using multiple coding-aware protection scenarios. Telecommunication Systems, 2017, 64, 75-85.	2.5	3
44	Performance of route partitioning scheme for hitless defragmentation in elastic optical networks. , 2017, , .		3
45	Performance of elastic optical network with allowable spectrum conversion at intermediate switches. , 2017, , .		3
46	A Span Power Management Scheme for Rapid Lightpath Provisioning and Releasing in Multi-Core Fiber Networks. IEEE/ACM Transactions on Networking, 2019, 27, 734-747.	3.8	3
47	An Optimistic Synchronization Based Optimal Server Selection Scheme for Delay Sensitive Communication Services. IEICE Transactions on Communications, 2021, E104.B, 1277-1287.	0.7	3
48	Participating-Domain Segmentation Based Server Selection Scheme for Real-Time Interactive Communication. IEICE Transactions on Communications, 2020, E103.B, 736-747.	0.7	3
49	Crosstalk-Aware vs. Crosstalk-Avoided Approaches in Spectrally-Spatially Elastic Optical Networks: Which is the Better Choice?. , 2022, , .		3
50	Performance evaluation of span power control scheme for fast optical lightpath provisioning in multi-core fiber networks. , 2015, , .		2
51	Task allocation scheme based on computational and network resources for heterogeneous Hadoop clusters. , 2016, , .		2
52	Lightpath threshold adaptation algorithm for dispersion-adaptive first-last fit spectrum allocation scheme in elastic optical networks. , 2016, , .		2
53	Participating-Domain Segmentation Based Server Selection Scheme in Delay-Sensitive Distributed Communication Approach. , 2018, , .		2
54	Utility driven cooperative spectrum sensing scheduling for heterogeneous multi-channel cognitive radio networks. Telecommunication Systems, 2021, 78, 25.	2.5	2

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55	Performance evaluation of partition scheme with first-last fit spectrum allocation for elastic optical networks. , 2016, , .		1
56	Introduction to Optical Network. Lecture Notes in Electrical Engineering, 2017, , 1-16.	0.4	1
57	Designing a Hadoop system based on computational resources and network delay for wide area networks. Telecommunication Systems, 2019, 70, 13-25.	2.5	1
58	Participating-Domain Segmentation Based Server Selection Scheme in Successive Participation Scenario. , 2019, , .		1
59	Optimal Server Selection Scheme With Optimistic Synchronization for Delay Sensitive Services. , 2021, , .		1
60	End-to-End Traffic Grooming. Lecture Notes in Electrical Engineering, 2017, , 45-50.	0.4	1
61	Priority-Based Dispersion-Reduced Wavelength Assignment Scheme. Lecture Notes in Electrical Engineering, 2017, , 65-84.	0.4	1
62	Defragmentation with Reroutable Backup Paths in Toggled 1+1 Protection Elastic Optical Networks. IEICE Transactions on Communications, 2020, E103.B, 211-223.	0.7	1
63	Limitations of Conventional WDM Optical Networks and Elastic Optical Networks for Possible Solutions. Lecture Notes in Electrical Engineering, 2017, , 101-115.	0.4	0
64	Priority-Based Routing and Wavelength Assignment Scheme. Lecture Notes in Electrical Engineering, 2017, , 51-63.	0.4	0
65	Performance of Hitless Defragmentation Scheme in Quasi 1+1 Path Protected Elastic Optical Networks. , 2018, , .		0
66	Performance of Dispersion-Reduced Wavelength Assignment in Wavelength-Routed Optical Networks. , 2018, , .		0
67	Defragmentation Considering Link Congestion in Toggled 1+1 Path Protected Elastic Optical Networks. , 2019, , .		0
68	Performance of Hitless Defragmentation with Rerouting for Quasi $1+1$ Protected Elastic Optical Networks. , 2020, , .		0
69	A Reliable Fault Resilience Scheme. Lecture Notes in Electrical Engineering, 2017, , 85-100.	0.4	0
70	Link-oriented Spectrum Resource Balancing for Hybrid Edge/Cloud Elastic Datacenter Optical Networks. , 2021, , .		0
71	An Optimistic Synchronization Based Server Selection Scheme with Successive Participation. , 2022, , .		0