Bijoy chand Chatterjee

List of Publications by Year
in descending order

71 papers	1,544 citations	430874 18 h-index	330143 37 g-index
75 all docs	75 docs citations	75 times ranked	621 citing authors

#	Article	IF	Citations
1	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
2	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
3	An Optimistic Synchronization Based Server Selection Scheme with Successive Participation. , 2022, , .		0
4	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
5	Crosstalk-Aware vs. Crosstalk-Avoided Approaches in Spectrally-Spatially Elastic Optical Networks: Which is the Better Choice?. , 2022, , .		3
6	Optimal Server Selection Scheme With Optimistic Synchronization for Delay Sensitive Services. , 2021, , .		1
7	Impairment-aware spectrum allocation in elastic optical networks: A dispersion-sensitive approach. Optical Fiber Technology, 2021, 61, 102431.	2.7	5
8	Utility driven cooperative spectrum sensing scheduling for heterogeneous multi-channel cognitive radio networks. Telecommunication Systems, 2021, 78, 25.	2.5	2
9	Jointly Inter-Core XT and Impairment Aware Lightpath Provisioning in Elastic Optical Networks. , 2021, , .		5
10	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
11	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
12	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
13	Cooperative Spectrum Prediction-Driven Sensing for Energy Constrained Cognitive Radio Networks. IEEE Access, 2021, 9, 26107-26118.	4.2	27
14	Node-Oriented Traffic Prediction and Scheduling Based on Graph Convolutional Network in Metro Optical Networks. , 2021, , .		8
15	Link-oriented Spectrum Resource Balancing for Hybrid Edge/Cloud Elastic Datacenter Optical Networks. , 2021, , .		0
16	Performance of routing and spectrum allocation approaches for multicast traffic in elastic optical networks. Optical Fiber Technology, 2020, 58, 102247.	2.7	12
17	Performance of Hitless Defragmentation with Rerouting for Quasi $1+1$ Protected Elastic Optical Networks. , 2020, , .		0
18	Defragmentation based on route partitioning in 1Â+Â1 protected elastic optical networks. Computer Networks, 2020, 177, 107317.	5.1	12

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19	Dynamic routing, spectrum, and modulation-format allocation in mixed-grid optical networks. Journal of Optical Communications and Networking, 2020, 12, 79.	4.8	34
20	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
21	Participating-Domain Segmentation Based Server Selection Scheme for Real-Time Interactive Communication. IEICE Transactions on Communications, 2020, E103.B, 736-747.	0.7	3
22	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
23	Designing a Hadoop system based on computational resources and network delay for wide area networks. Telecommunication Systems, 2019, 70, 13-25.	2.5	1
24	Participating-Domain Segmentation Based Delay-Sensitive Distributed Server Selection Scheme. IEEE Access, 2019, 7, 20689-20697.	4.2	12
25	Spectrum Fragmentation Management in Elastic Optical Networks. , 2019, , .		6
26	Modulation-Adaptive Link-Disjoint Path Selection Model for 1 + 1 Protected Elastic Optical Networks. IEEE Access, 2019, 7, 25422-25437.	4.2	9
27	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
28	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
29	Participating-Domain Segmentation Based Server Selection Scheme in Successive Participation Scenario. , 2019, , .		1
30	Defragmentation Considering Link Congestion in Toggled 1+1 Path Protected Elastic Optical Networks. , 2019, , .		0
31	Fragmentation Problems and Management Approaches in Elastic Optical Networks: A Survey. IEEE Communications Surveys and Tutorials, 2018, 20, 183-210.	39.4	160
32	Knapsack based multicast traffic grooming for optical networks. Optical Switching and Networking, 2018, 27, 40-49.	2.0	4
33	Performance of Hitless Defragmentation Scheme in Quasi 1+1 Path Protected Elastic Optical Networks. , 2018, , .		0
34	Participating-Domain Segmentation Based Server Selection Scheme in Delay-Sensitive Distributed Communication Approach. , 2018, , .		2
35	Defragmentation Using Reroutable Backup Paths in Toggled 1+1 Path Protected Elastic Optical Networks. , 2018, , .		7
36	Dispersion Based Highest-Modulation-First Last-Fit Spectrum Allocation Scheme for Elastic Optical Networks. IEEE Access, 2018, 6, 59907-59916.	4.2	16

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37	Performance of Dispersion-Reduced Wavelength Assignment in Wavelength-Routed Optical Networks. , 2018, , .		0
38	Performance Analysis of Fairness Oriented Dynamic Bandwidth Algorithm in Integrated Fiber-Wireless Architecture Based on XG-PON and Wi-Fi. , 2018, , .		5
39	Recent research progress on spectrum management approaches in software-defined elastic optical networks. Optical Switching and Networking, 2018, 30, 93-104.	2.0	25
40	Robust Optimization Model for Backup Resource Allocation in Cloud Provider. , 2018, , .		29
41	Instantaneous recovery route design scheme using multiple coding-aware protection scenarios. Telecommunication Systems, 2017, 64, 75-85.	2.5	3
42	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
43	Performance of route partitioning scheme for hitless defragmentation in elastic optical networks. , 2017, , .		3
44	Design and control in elastic optical networks: Issues, challenges, and research directions. , 2017, , .		5
45	Limitations of Conventional WDM Optical Networks and Elastic Optical Networks for Possible Solutions. Lecture Notes in Electrical Engineering, 2017, , 101-115.	0.4	0
46	Introduction to Optical Network. Lecture Notes in Electrical Engineering, 2017, , 1-16.	0.4	1
47	Priority-Based Routing and Wavelength Assignment Scheme. Lecture Notes in Electrical Engineering, 2017, , 51-63.	0.4	0
48	A Real-Time Delay-Sensitive Communication Approach Based on Distributed Processing. IEEE Access, 2017, 5, 20235-20248.	4.2	21
49	Performance of elastic optical network with allowable spectrum conversion at intermediate switches. , 2017, , .		3
50	Performance evaluation of first-last-exact fit spectrum allocation policy for elastic optical networks. , 2017, , .		9
51	End-to-End Traffic Grooming. Lecture Notes in Electrical Engineering, 2017, , 45-50.	0.4	1
52	Priority-Based Dispersion-Reduced Wavelength Assignment Scheme. Lecture Notes in Electrical Engineering, 2017, , 65-84.	0.4	1
53	A Reliable Fault Resilience Scheme. Lecture Notes in Electrical Engineering, 2017, , 85-100.	0.4	0
54	Route Partitioning Scheme for Elastic Optical Networks With Hitless Defragmentation. Journal of Optical Communications and Networking, 2016, 8, 356.	4.8	58

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55	Task allocation scheme based on computational and network resources for heterogeneous Hadoop clusters. , 2016, , .		2
56	Computational time complexity of allocation problem for distributed servers in real-time applications. , 2016, , .		12
57	Performance evaluation of partition scheme with first-last fit spectrum allocation for elastic optical networks. , 2016, , .		1
58	Lightpath threshold adaptation algorithm for dispersion-adaptive first-last fit spectrum allocation scheme in elastic optical networks. , 2016, , .		2
59	Distributed processing communication scheme for real-time applications considering admissible delay. , 2016, , .		4
60	A spectrum allocation scheme based on firstâ€"last-exact fit policy for elastic optical networks. Journal of Network and Computer Applications, 2016, 68, 164-172.	9.1	38
61	Dispersion-Adaptive Firstâ€"Last Fit Spectrum Allocation Scheme for Elastic Optical Networks. IEEE Communications Letters, 2016, 20, 696-699.	4.1	35
62	Routing and Spectrum Allocation in Elastic Optical Networks: A Tutorial. IEEE Communications Surveys and Tutorials, 2015, 17, 1776-1800.	39.4	501
63	Performance evaluation of span power control scheme for fast optical lightpath provisioning in multi-core fiber networks. , 2015, , .		2
64	Span power management scheme for rapid lightpath provisioning in multiâ€core fibre networks. Electronics Letters, 2015, 51, 76-78.	1.0	3
65	A subcarrier-slot partition scheme with first-last fit spectrum allocation for elastic optical networks. Computer Networks, 2015, 91, 700-711.	5.1	39
66	Performance evaluation of spectrum allocation policies for elastic optical networks. , 2015, , .		20
67	Priority Based Dispersion-Reduced Wavelength Assignment for Optical Networks. Journal of Lightwave Technology, 2013, 31, 257-263.	4.6	29
68	A QoS-aware wavelength assignment scheme for optical networks. Optik, 2013, 124, 4498-4501.	2.9	11
69	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
70	Priority Based Routing and Wavelength Assignment With Traffic Grooming for Optical Networks. Journal of Optical Communications and Networking, 2012, 4, 480.	4.8	85
71	A heuristic priority based wavelength assignment scheme for optical networks. Optik, 2012, 123, 1505-1510.	2.9	13