John S Vardakas

List of Publications by Year
in descending order

86	2,040	361413	414414
papers	citations	20 h-index	32 g-index

88	88	88	2169
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Novel 5G-NR Resources Partitioning Framework Through Real-Time User-Provider Traffic Demand Analysis. IEEE Systems Journal, 2022, 16, 5317-5328.	4.6	3
2	Modelling the Admission Ratio in NFV-Based Converged Optical-Wireless 5G Networks. IEEE Transactions on Vehicular Technology, 2021, 70, 12024-12038.	6.3	6
3	5G RAN Slicing: Dynamic Single Tenant Radio Resource Orchestration for eMBB Traffic within a Multi-Slice Scenario. IEEE Communications Magazine, 2021, 59, 110-116.	6.1	21
4	SDN-Enabled Resource Management for Converged Fi-Wi 5G Fronthaul. IEEE Journal on Selected Areas in Communications, 2021, 39, 2772-2788.	14.0	12
5	Performance evaluation of Cloud Radio Access Networks by jointly considering communicational and computational network resources. , 2021, , .		1
6	Real-time energy management of a smart home based on deep deterministic policy gradient. , 2021, , .		1
7	Towards Machine-Learning-Based 5G and Beyond Intelligent Networks: The MARSAL Project Vision. , 2021, , .		8
8	5G RAN resource slicing with flexible functional splits over multi-tenant environment. , 2021, , .		2
9	End-to-End Delay Performance of Analog Fiber Wireless Architecture for 5G NR Fronthaul. , 2020, , .		1
10	EXPLOR â€“ A Novel Holistic Numerical Platform for Converged Optical-Wireless B5G Networks. , 2020, , .		0
11	Machine Learning Methodologies for Electric-Vehicle Energy Management Strategies. , 2020, , 115-132.		1
12	Dynamic partitioning of radio resources based on 5G RAN Slicing. , 2020, , .		4
13	A Gated Service MAC Protocol for 5G Fiber-Wireless Cloud-Radio Access Networks. Lecture Notes in Computer Science, 2020, , 425-436.	1.3	0
14	Optimal Power Equipment Sizing and Management for Cooperative Buildings in Microgrids. IEEE Transactions on Industrial Informatics, 2019, 15, 158-172.	11.3	22
15	Delay Analysis of a Gated Service MAC Protocol for Fiber-Wireless 5G MmWave C-RANs. , 2019, , .		6
16	Load balancing and control with interference mitigation in 5G heterogeneous networks. Eurasip Journal on Wireless Communications and Networking, 2019, 2019, .	2.4	15
17	SDN/NFV-Based Network Resource Management for Converged Optical-Wireless Network Architectures. , 2019, , .		8
18	Next Generation Fiber-Wireless Fronthaul for 5G mmWave Networks. IEEE Communications Magazine, 2019, 57, 138-144.	6.1	98

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19	Real-Time Dynamic Network Slicing for the 5G Radio Access Network. , 2019, , .		5
20	Converged Analog Fiber-Wireless Point-to-Multipoint Architecture for eCPRI 5G Fronthaul Networks. , 2019, , .		13
21	Quality of Service Provisioning in High-Capacity 5G Fronthaul/Backhaul Networks. Advances in Intelligent Systems and Computing, 2018, , 797-804.	0.6	0
22	Performance Evaluation of a Multi-Standard Fast Charging Station for Electric Vehicles. IEEE Transactions on Smart Grid, 2018, 9, 4480-4489.	9.0	40
23	QoS-Aware Resource Management for Converged Fiber Wireless 5G Fronthaul Networks. , 2018, , .		9
24	Water4Cities: An ICT Platform Enabling Holistic Surface Water and Groundwater Management for Sustainable Cities. Proceedings (mdpi), 2018, 2, .	0.2	2
25	Medium-transparent Dynamic Bandwidth Allocation for 5G Fiber Wireless Dense Fronthaul Networks. , 2018, , .		2
26	Electrical Energy Savings through Efficient Cooperation of Urban Buildings: The Smart Community Case of Superblocks' in Barcelona. IEEE Communications Magazine, 2018, 56, 102-109.	6.1	11
27	Medium-Transparent Packet-Based Fronthauling for 5G Hot-Spot Networks. , 2018, , .		3
28	A C-RAN Based 5G Platform with a Fully Virtualized, SDN Controlled Optical/Wireless Fronthaul. , 2018, , .		16
29	5G mm Wave Networks Leveraging Enhanced Fiber-Wireless Convergence for High-Density Environments: The 5G-PHOS Approach. , 2018, , .		2
30	Towards high capacity and low latency backhauling in 5G: The 5G STEP-FWD vision. , 2017, , .		10
31	Cooperation incentives for multi-operator C-RAN energy efficient sharing. , 2017, , .		15
32	Cooperation in microgrids through power exchange: An optimal sizing and operation approach. Applied Energy, 2017, 203, 972-981.	10.1	50
33	Non-Saturation Delay Analysis of Medium Transparent MAC Protocol for 60 GHz Fiber-Wireless Towards 5G mmWave Networks. Journal of Lightwave Technology, 2017, 35, 3945-3955.	4.6	12
34	Guest Editorial: SDN and NFV Based 5G Heterogeneous Networks. IET Networks, 2017, 6, 139-140.	1.8	0
35	Multi-Tenant Slicing for Spectrum Management on the Road to 5G. IEEE Wireless Communications, 2017, 24, 118-125.	9.0	36
36	Medium Transparent MAC access schemes for seamless packetized fronthaul in mm-wave 5G picocellular networks. , 2017, , .		1

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37	Internet services market across Europe during crisis: A study focused on low-income groups. , 2017, , .		0
38	On converged Medium-Transparent MAC protocols for mm-wave fiber-wireless networks. , 2017, , .		0
39	Delay Analysis of Converged Medium Transparent Fixed Service Optical-Wireless Networks. , 2016, , .		1
40	Transmission Policies for Interference Management in Full-Duplex D2D Communication. , 2016, , .		3
41	Analysis and quality of service evaluation of a fast charging station for electric vehicles. Energy, 2016, 112, 669-678.	8.8	64
42	Power demand control scenarios for smart grid applications with finite number of appliances. Applied Energy, 2016, 162, 83-98.	10.1	53
43	Performance metrics of a multirate resource sharing teletraffic model with finite sources under the threshold and bandwidth reservation policies. IET Networks, 2015, 4, 195-208.	1.8	33
44	A Survey on Short-Term Electricity Price Prediction Models for Smart Grid Applications. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 60-69.	0.3	1
45	Scheduling of the super-dense wireless cloud networks. , 2015, , .		0
46	Performance Analysis of M2M Communication Networks for QoS-Differentiated Smart Grid Applications. , 2015, , .		5
47	Performance evaluation of power demand scheduling scenarios in a smart grid environment. Applied Energy, 2015, 142, 164-178.	10.1	45
48	Congestion probabilities of elastic and adaptive calls in Erlang-Engset multirate loss models under the threshold and bandwidth reservation policies. Computer Networks, 2015, 92, 1-23.	5.1	38
49	System-level simulation of multihop wireless networks using physical-layer network coding. , 2015, , .		0
50	A Survey on Demand Response Programs in Smart Grids: Pricing Methods and Optimization Algorithms. IEEE Communications Surveys and Tutorials, 2015, 17, 152-178.	39.4	731
51	Handover performance in LTE-A HetNets through inter-site distance differentiation. , 2014, , .		5
52	Handoff modeling in cellular CDMA with finite sources and state-dependent bandwidth requirements. , 2014, , .		4
53	Electric vehicles charging management in communication controlled fast charging stations. , 2014, , .		16
54	Delay analysis of converged opticalâ€wireless networks with quality of service support. IET Circuits, Devices and Systems, 2014, 8, 339-348.	1.4	2

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55	A dual-band power amplifier based on composite right/left-handed matching networks. , 2014, , .		1
56	Dual-Band Resistance Compression Networks for Improved Rectifier Performance. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 3512-3521.	4.6	201
57	Performance analysis of OCDMA PON configuration supporting multi-rate bursty traffic with retrials and QoS differentiation. Optical Switching and Networking, 2014, 13, 112-123.	2.0	13
58	Scheduling policies for two-state smart-home appliances in dynamic electricity pricing environments. Energy, 2014, 69, 455-469.	8.8	27
59	Performance evaluation of a Dynamic Wavelength Allocation protocol in WDM-TDM PONs servicing Pareto ON-OFF traffic. , 2014, , .		1
60	Performance evaluation of PON technologies. , 2014, , .		1
61	Congestion probabilities in a batched Poisson multirate loss model supporting elastic and adaptive traffic. Annales Des Telecommunications/Annals of Telecommunications, 2013, 68, 327-344.	2.5	38
62	The priority wavelength release protocol for dynamic wavelength allocation in WDM-TDMA PONs supporting random and quasi-random bursty traffic. , 2013, , .		3
63	Performance Analysis of OCDMA PONs Supporting Multi-Rate Bursty Traffic. IEEE Transactions on Communications, 2013, 61, 3374-3384.	7.8	44
64	QoS guarantee in a batched poisson multirate loss model supporting elastic and adaptive traffic. , 2012, , .		22
65	Derivatives of blocking probabilities in multirate access tree networks. , 2012, , .		0
66	On code reservation in multi-rate OCDMA Passive Optical Networks. , 2012, , .		24
67	A Batched Poisson Multirate Loss Model Supporting Elastic Traffic under the Bandwidth Reservation Policy. , 2011, , .		21
68	A multi-rate loss model for OCDMA PONs. , 2011, , .		1
69	An Analytical Approach for Dynamic Wavelength Allocation in WDMâ€“TDMA PONs Servicing ONâ€“OFF Traffic. Journal of Optical Communications and Networking, 2011, 3, 347.	4.8	33
70	ON-OFF traffic models for a hybrid TDM-WDM PON with dynamic wavelength allocation. , 2010, , .		0
71	Study on the instantaneous frequency deviation of pulses switched from semiconductor optical amplifierâ€“assisted Sagnac interferometer. Optical Engineering, 2010, 49, 075003.	1.0	2
72	A Simple Analytical Model for the Calculation of Packet Blocking Probability in an Optical Packet Switching Netw. , 2010, , .		2

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73	An Analytical Study of an All-Optical Packet Switch with QoS Support. , 2010, , .		0
74	End-to-end delay analysis of the IEEE 802.11e with MMPP input-traffic. , 2009, , .		2
75	Blocking Analysis for Priority Classes in Hybrid WDM-OCDMA Passive Optical Networks. , 2009, , .		3
76	Packet Delay Analysis for Priority-Based Passive Optical Networks. , 2009, , .		4
77	Performance behaviour of IEEE 802.11 distributed coordination function. IET Circuits, Devices and Systems, 2008, 2, 50.	1.4	33
78	Blocking Analysis in Hybrid TDM-WDM PONs Supporting Elastic Traffic. , 2008, , .		8
79	Call-level analysis of hybrid WDM-OCDMA PONs. , 2008, , .		2
80	Loss models in traffic-groomed WDM all-optical networks. , 2008, , .		2
81	Performance investigation of all-optical clock recovery circuit based on Fabry-PÃ©rot filter and semiconductor optical amplifier assisted Sagnac switch. Optical Engineering, 2007, 46, 085005.	1.0	29
82	Calculating Blocking Probabilities in Single-Hop WDM Traffic Groomed Optical Networks. , 2007, , .		9
83	On the End-to-End Delay Analysis of the IEEE 802.11 Distributed Coordination Function. , 2007, , .		26
84	Performance evaluation of IEEE 802.11e based on ON-OFF traffic model. , 2007, , .		10
85	Investigation of SOA-assisted Sagnac recirculating shift register switching characteristics. Optik, 2005, 116, 527-541.	2.9	28
86	Analysis and design of ultrahigh-speed all-optical semiconductor-optical-amplifier-assisted Sagnac recirculating shift register with an inverter. Optical Engineering, 2005, 44, 065001.	1.0	12