Rajendran Parthiban

List of Publications by Year
in descending order

78 papers	1,794 citations	516710 16 h-index	289244 40 g-index
80 all docs	80 docs citations	80 times ranked	1874 citing authors

#	Article	IF	Citations
1	LED Based Indoor Visible Light Communications: State of the Art. IEEE Communications Surveys and Tutorials, 2015, 17, 1649-1678.	39.4	683
2	Evolution of WDM Optical IP Networks: A Cost and Energy Perspective. Journal of Lightwave Technology, 2009, 27, 243-252.	4.6	205
3	Laser-Diode-Based Visible Light Communication: Toward Gigabit Class Communication. , 2017, 55, 144-151.		121
4	Dimming schemes for visible light communication: the state of research. IEEE Wireless Communications, 2015, 22, 29-35.	9.0	105
5	Waveband grooming and IP aggregation in optical networks. Journal of Lightwave Technology, 2003, 21, 2476-2488.	4.6	53
6	Toward a Power-Efficient Backbone Network: The State of Research. IEEE Communications Surveys and Tutorials, 2015, 17, 198-227.	39.4	48
7	Adoption factors of cleaner production technology in a developing country: energy efficient lighting in Malaysia. Journal of Cleaner Production, 2016, 131, 97-106.	9.3	46
8	A survey of economic models in grid computing. Future Generation Computer Systems, 2011, 27, 1056-1069.	7.5	45
9	Energy and economic benefits of LED adoption in Malaysia. Renewable and Sustainable Energy Reviews, 2015, 49, 629-637.	16.4	45
10	Spatiotemporal feature extraction for facial expression recognition. IET Image Processing, 2016, 10, 534-541.	2.5	41
11	Visible Light Communications localization using TDOA-based coherent heterodyne detection. , 2013, , .		36
12	A neural network approach for traffic prediction and routing with missing data imputation for intelligent transportation system. Expert Systems With Applications, 2021, 171, 114573.	7.6	33
13	Joint facial expression recognition and intensity estimation based on weighted votes of image sequences. Pattern Recognition Letters, 2017, 92, 25-32.	4.2	31
14	Coordinated Traffic Light Control in Cooperative Green Vehicle Routing for Pheromone-based Multi-Agent Systems. Applied Soft Computing Journal, 2019, 81, 105486.	7.2	29
15	Investigation into Mass Loading Sensitivity of Sezawa Wave Mode-Based Surface Acoustic Wave Sensors. Sensors, 2013, 13, 2164-2175.	3.8	24
16	Proactive eco-friendly pheromone-based green vehicle routing for multi-agent systems. Expert Systems With Applications, 2019, 121, 324-337.	7.6	18
17	Review of advanced techniques for multiâ€gigabit visible light communication. IET Optoelectronics, 2020, 14, 359-373.	3.3	18
18	Microfabrication of surface acoustic wave device using UV LED photolithography technique. Microelectronic Engineering, 2014, 122, 9-12.	2.4	17

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19	Touch-based continuous mobile device authentication: State-of-the-art, challenges and opportunities. Journal of Network and Computer Applications, 2021, 191, 103162.	9.1	14
20	Economic and system impact of hybrid Raman–EDFA amplification in a 40×40Gbps optical transmission network with DPSK modulation. Optical Fiber Technology, 2013, 19, 10-15.	2.7	13
21	Improving Lighting Quality and Capacity of OFDM-Based WDM-VLC Systems. IEEE Photonics Technology Letters, 2016, 28, 2149-2152.	2.5	13
22	Shadow mask assisted direct growth of ZnO nanowires as a sensing medium for surface acoustic wave devices using a thermal evaporation method. Journal of Micromechanics and Microengineering, 2016, 26, 025017.	2.6	12
23	An Adaptive Handover Scheme for Hybrid LiFi and WiFi Networks. IEEE Access, 2022, 10, 18955-18965.	4.2	12
24	Extended pheromone-based short-term traffic forecasting models for vehicular systems. Engineering Applications of Artificial Intelligence, 2019, 82, 60-75.	8.1	11
25	Cost Comparison of Optical Circuit-Switched and Burst-Switched Networks. Journal of Lightwave Technology, 2009, 27, 2315-2329.	4.6	9
26	Alignment nature of ZnO nanowires grown on polished and nanoscale etched lithium niobate surface through self-seeding thermal evaporation method. Materials Research Bulletin, 2015, 68, 35-41.	5.2	8
27	Joint Minimization of Spectrum and Power in Impairment-Aware Elastic Optical Networks. IEEE Access, 2021, 9, 43349-43363.	4.2	7
28	Modeling and analysis of multi-channel gigabit class CWDM-VLC system. Optics Communications, 2020, 460, 125141.	2.1	6
29	Experimental investigation of analog and digital dimming techniques on photometric performance of an indoor Visible Light Communication (VLC) system. Proceedings of SPIE, 2015, , .	0.8	5
30	Integration and Evaluation of Hybrid RoF-VLC Network. , 2020, , .		5
31	Does optical burst switching have a role in the core network?. , 2005, , .		4
32	Network Dimensioning and Optimization using Aurora. , 2008, , .		4
33	A Semantic Decentralized Chord-Based Resource Discovery Model for Grid Computing. , 2011, , .		4
34	Identifying and Modeling the Strengths and Weaknesses of Major Economic Models in Grid Resource Management. Journal of Grid Computing, 2014, 12, 285-302.	3.9	4
35	Analysis of the effects of multiple reflection paths on high speed VLC system performance. , 2018, , .		4
36	A Comparison of IVHO and DVHO in Heterogeneous VLC-RF Networks. , 2021, , .		4

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37	Continuous Double Auction in Grid Computing: An Agent Based Approach to Maximize Profit for Providers. , 2010, , .		3
38	A Semantic Impact in Decentralized Resource Discovery Mechanism for Grid Computing Environments. Lecture Notes in Computer Science, 2012, , 206-216.	1.3	3
39	Adoption of Energy Efficient New Technologies from the Point of View of Malaysian Experts and Consumers: A Qualitative Analysis. Journal of Clean Energy Technologies, 2015, 3, 236-241.	0.1	3
40	Traffic grooming in hybrid ring-star optical networks. Journal of Optical Networking, 2007, 6, 263.	2.5	2
41	A Fuzzy Logic Algorithm for Minimizing Error (FLAME) in Wireless Sensor Networks. , 2009, , .		2
42	A Heuristic Algorithm for Topological Optimization of All-Optical Networks. , 2009, , .		2
43	Aurora: A software framework for all-optical network design and analysis. , 2009, , .		2
44	Sparse grooming sites in all-optical networks. , 2010, , .		2
45	Disjoint path re-routing in optical networks. , 2010, , .		2
46	Multi-constraint physical topology design for all optical networks. , 2011, , .		2
47	Waveband grouping policies for reducing energy consumption in optical internet backbone networks. , 2012, , .		2
48	Reducing power consumption in an optical circuit-switched core network by switching off amplifiers. , 2013, , .		2
49	An optimization-based adaptive resource management framework for economic Grids: A switching mechanism. Future Generation Computer Systems, 2015, 47, 48-59.	7.5	2
50	A Fuzzy Rule-Based Optimisation Model for Efficient Resource Utilisation in a Grid Environment Using Proximity Awareness and Semantic Technology. Journal of Information and Knowledge Management, 2018, 17, 1850023.	1.1	2
51	What Do Users like About Smart Bottle? Insights for Designers. Lecture Notes in Computer Science, 2019, , 325-336.	1.3	2
52	A Semantic-Based Centralized Resource Discovery Model for Grid Computing. Communications in Computer and Information Science, 2011, , 161-170.	0.5	2
53	A Novel Optimization Model Based on the Unification of Proximity and Semantic Similarity in Grid Computing. Communication Design Quarterly Review, 0, , 1-14.	0.1	2
54	Towards Better Understanding of Two Economic Models: A Grid Perspective. Communications of the IBIMA, 0, , 1-13.	0.3	2

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55	A framework of dynamic selection method for user classification in touch-based continuous mobile device authentication. Journal of Information Security and Applications, 2022, 67, 103217.	2.5	2
56	Traffic Aggregation in Hybrid Ring-Star Optical Networks. , 2005, , .		1
57	Waveband burst switching - a new approach to networking. , 2006, , .		1
58	Effect of Lightpath Bit-rate on the Dimensioning of Automatically Switched Optical Networks. , 2006, , .		1
59	RFID asset monitoring system for laboratory environment. , 2009, , .		1
60	Ingredients for high citation index. , 2009, , .		1
61	Interaction-Oriented System for VITAL Framework. , 2012, , .		1
62	A Proximity and Semantic-Aware Optimisation Model for Sub-Domain-Based Decentralised Resource Discovery in Grid Computing. Journal of Information and Knowledge Management, 2016, 15, 1650020.	1.1	1
63	How seamless are technology-rich learning environments? the voice of IT educators. , 2018, , .		1
64	Impacts of Non-Recurrent Events on Pheromone-Based Green Transportation System. IEEE Access, 2020, 8, 8876-8885.	4.2	1
65	Efficient Resource Provisioning by Means of Sub-domain Based Ontology and Dynamic Pricing in Grid Computing. Journal of Cloud Computing, 0, , 1-15.	2.0	1
66	MOD3D-PAT - A Novel Modified 3rd Degree Polynomial Approximation for Modelling Traffic Congestion in Urban Areas. , 2021, , .		1
67	Induced electron radiation effect on the performance of inter-satellite optical wireless communication. PLoS ONE, 2021, 16, e0259649.	2.5	1
68	Modeling and analysis od optical networks with traffic grooming. , 0, , .		0
69	Level of IP aggregation in Automatically Switched Optical Networks. , 2007, , .		0
70	4G Wireless Technology: Will it be Feasible for Malaysian Operators?. , 2008, , .		0
71	Comparison of Switching Cost for Ring Optical Backbone Networks. , 2008, , .		0
72	Implementation of Autonomous Pricing Mechanism in Grid Computing. , 2010, , .		0

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73	Towards improving resource discovery in Grid computing using semantic and multi-agent methodology. , 2010, , .		0
74	Effect of sparse grooming on power consumption of optical networks. , 2010, , .		0
75	A novel burst assembly method for energy saving in burst switching networks. , 2012, , .		0
76	A viable model for SNR determination in OFDM based visible light communication systems. , 2015, , .		0
77	Modeling a Seamless Learning framework in higher education. , 2016, , .		0
78	Approaches of Gigabit-Class Transmission for VLC with ÂµLED-Based WDM System. Lecture Notes in Electrical Engineering, 2020, , 39-48.	0.4	0