Subrat Kar

List of Publications by Year
in descending order

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		430874	454955
148	1,401	18	30
papers	citations	h-index	g-index

152	152	152	957
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	RSS-Based Cooperative Localization and Edge Node Detection. IEEE Transactions on Vehicular Technology, 2022, 71, 5387-5403.	6.3	3
2	Invex Relaxation Based Cooperative Localization Using RSS Measurements. IEEE Transactions on Communications, 2022, 70, 5482-5497.	7.8	1
3	Person Identification and Imposter Detection Using Footstep Generated Seismic Signals. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	26
4	RSS-Based Localization in the Presence of Malicious Nodes in Sensor Networks. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-16.	4.7	12
5	A hybrid trust management framework for a multi-service social IoT network. Computer Communications, 2021, 171, 61-79.	5.1	24
6	Person Identification Using Structural Vibrations via Footfalls for Smart Home Applications. IEEE Internet of Things Journal, 2021, 8, 13384-13396.	8.7	5
7	Development of an Automated Monitoring and Warning System for Landslide Prone Sites. Communications in Computer and Information Science, 2021, , 66-77.	0.5	0
8	Performance Analysis of a Novel 2-D Code in the Network Access Segment. Journal of Optical Communications, 2020, 41, 411-419.	4.7	1
9	Signaling Packet Aggregation and Compression in SIP Network: Modeling and Performance Evaluation. Wireless Personal Communications, 2020, 110, 651-676.	2.7	1
10	Signal Strength-Based Cooperative Sensor Network Localization Using Convex Relaxation. IEEE Wireless Communications Letters, 2020, 9, 2207-2211.	5.0	9
11	A Neighborhood Overlap Based Approach for Service Provider Prioritization in a Directed Social IoT Service Network. , 2020, , .		1
12	Analysis of Mid-Haul Characteristics for LTE-NR Multi-Connectivity in Heterogeneous Cloud RAN. , 2019, , .		1
13	Analysis of Beam Wander Effect of Flat-topped Multi-Gaussian Beam for FSO Communication Link. , 2019, , .		0
14	GMM-UBM based Person Verification using footfall signatures for Smart Home Applications. , 2019, , .		3
15	Dynamic Configuration of Optical Physical Layer Using SDN and Optical Network Description Language. , 2019, , .		0
16	Person Identification and Imposter Detection using Footfall based Biometric System. , 2019, , .		5
17	Delay Efficient Load Balancing Scheme for Component Carrier Selection in Carrier Aggregation in LTE-A. EAI/Springer Innovations in Communication and Computing, 2019, , 151-163.	1.1	0
18	Performance analysis of a new OCFHC/QCC visâ€¤â€vis synchronous PC/OOC code using photon count approach. IET Optoelectronics, 2019, 13, 77-84.	3.3	3

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19	Analysis of energy efficiency in cloud based heterogeneous RAN with large-scale antenna systems. Computer Networks, 2019, 149, 265-276.	5.1	4
20	Energy efficient routing in wireless sensor networks via circulating operator packets. Wireless Networks, 2019, 25, 3063-3080.	3.0	5
21	Performance enhancement of double hard limited 2D atmospheric OCDMA system using aperture averaging and spatial diversity. IET Communications, 2019, 13, 585-593.	2.2	4
22	Analysis of traffic offload using multiâ€attribute decision making technique in heterogeneous shared networks. IET Networks, 2019, 8, 256-263.	1.8	2
23	Detection of an Intruder and Prediction of His State of Motion by Using Seismic Sensor. IEEE Sensors Journal, 2018, 18, 703-712.	4.7	31
24	UREDT: Unsupervised Learning Based Real-Time Footfall Event Detection Technique in Seismic Signal. , 2018, 2, 1-4.		19
25	Reduction in transmitter power requirement for earth-to-satellite and satellite-to-earth free space optical links with spatial diversity. Optical and Quantum Electronics, 2018, 50, 1.	3.3	9
26	Robust Range-Based Secure Localization in Wireless Sensor Networks. , 2018, , .		9
27	Analysis of Computational Complexity and Power Consumption in Cloud Based Heterogeneous RAN. , 2018, , .		0
28	Control and Management of Optical Networks Using Optical Network Description Language. , 2018, , .		1
29	Analysis of beam wander effect in high turbulence for FSO communication link. IET Communications, 2018, 12, 2533-2537.	2.2	5
30	IoT Based Wearable Knitted Fabric Respiratory Monitoring System. , 2018, , .		7
31	Indoor localization using analog output of pyroelectric infrared sensors. , 2018, , .		12
32	Utilizing Social Networks Data for Trust Management in a Social Internet of Things Network. , 2018, , .		4
33	Modeling the analog response of passive infrared sensor. Sensors and Actuators A: Physical, 2018, 279, 65-74.	4.1	31
34	Performance enhancement of a novel 2-D code based atmospheric OCDMA system. , 2018, , .		3
35	Free Space Optical Communication. Optical Networks Series, 2017, , .	1.1	190
36	Overview of Wireless Optical Communication Systems. Optical Networks Series, 2017, , 1-39.	1.1	8

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37	Free-Space Optical Channel Models. Optical Networks Series, 2017, , 41-89.	1.1	30
38	FSO System Modules and Design Issues. Optical Networks Series, 2017, , 91-118.	1.1	1
39	Acquisition, Tracking, and Pointing. Optical Networks Series, 2017, , 119-137.	1.1	11
40	BER Performance of FSO System. Optical Networks Series, 2017, , 139-160.	1.1	0
41	Link Performance Improvement Techniques. Optical Networks Series, 2017, , 161-195.	1.1	0
42	Link Feasibility Study. Optical Networks Series, 2017, , 197-204.	1.1	0
43	Temperature sensor based ultra low cost respiration monitoring system. , 2017, , .		15
44	Capacity Improvement of a Free Space Optical Satellite Uplink using Transmitter Power and Rate Adaptation. Journal of Optical Communications, 2017, 38, .	4.7	0
45	Experimental investigation of optimum beam size for FSO uplink. Optics Communications, 2017, 400, 106-114.	2.1	33
46	Performance analysis of wireless OCDMA multi-user system based on new 2-D code in presence of atmospheric turbulence and various weather conditions. , 2017, , .		4
47	Performance of 1â€Ð and 2â€Ð OCDMA systems in presence of atmospheric turbulence and various weather conditions. IET Communications, 2017, 11, 1416-1422.	2.2	12
48	Predicting gender from footfalls using a seismic sensor. , 2017, , .		7
49	Transmitter Spatial Diversity for FSO Uplink in Presence of Atmospheric Turbulence and Weather Conditions for Different IM Schemes. Journal of Optical Communications, 2017, 39, .	4.7	3
50	Impact of WSS Passband Narrowing Effect on the Capacity of the Flexible-spectrum Networks. , 2017, , .		5
51	Reducing session establishment delay using timed out packets in SIP signaling network. International Journal of Communication Systems, 2016, 29, 262-276.	2.5	9
52	Performance improvement of FSO satellite downlink using aperture averaging and receiver spatial diversity. IET Optoelectronics, 2016, 10, 119-127.	3.3	18
53	Aperture averaging and receiver diversity for FSO downlink in presence of atmospheric turbulence and weather conditions for OOK, M-PPM and M-DPPM schemes. Optical and Quantum Electronics, 2016, 48, 1.	3.3	18
54	Network Equipment and Their Procurement Strategy for High Capacity Elastic Optical Networks. Journal of Optical Communications and Networking, 2016, 8, A201.	4.8	15

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55	Performance enhancement of free space optical satellite uplink with transmitter spatial diversity technique. Optical and Quantum Electronics, 2016, 48, 1.	3.3	4
56	Performance evaluation of satellite-to-earth FSO link in presence of turbulence and weather conditions for different IM schemes. , 2016, , .		2
57	Automation of Agriculture Support Systems using Wisekar: Case study of a crop-disease advisory service. Computers and Electronics in Agriculture, 2016, 122, 200-210.	7.7	31
58	Adaptive coding and modulation (ACM) technique for performance enhancement of FSO Link. , 2016, , .		10
59	Performance of free space optical links in presence of turbulence, pointing errors and adverse weather conditions. Optical and Quantum Electronics, 2016, 48, 1.	3.3	22
60	Performance enhancement by aperture averaging in terrestrial and satellite free space optical links. IET Optoelectronics, 2016, 10, 111-117.	3.3	26
61	Performance evaluation of region estimation with reactive routing in wireless sensor networks. International Journal of Sensor Networks, 2016, 22, 87.	0.4	0
62	A new family of 2-D codes for multimedia applications. , 2015, , .		2
63	Performance analysis of free space optical links using multiâ€input multiâ€output and aperture averaging in presence of turbulence and various weather conditions. IET Communications, 2015, 9, 1104-1109.	2.2	39
64	Design and Implementation of MOEMS Based Ground to Satellite Free Space Optical Link Under Turbulence Condition. Procedia Computer Science, 2015, 46, 1216-1222.	2.0	6
65	Enhanced inherent survivability to link failures at low link margin in a flexgrid optical network. , 2015, , .		0
66	Analysis of earthâ€toâ€satellite freeâ€space optical link performance in the presence of turbulence, beamâ€wander induced pointing error and weather conditions for different intensity modulation schemes. IET Communications, 2015, 9, 2253-2258.	2.2	55
67	Performance evaluation of graded precision localization with sensor networks in indoor spaces. Computers and Electrical Engineering, 2015, 48, 258-269.	4.8	2
68	Non-linear impairment modeling for flexgrid network and its application in offline network equipment upgrade strategy. , 2015, , .		3
69	Adaptive Transmission Power Protocol for heterogeneous Wireless Sensor Networks. , 2015, , .		3
70	Performance evaluation of localization techniques in wireless sensor networks using RSSI and LQI. , 2015, , .		17
71	Experimental evaluation of the effect of aperture averaging technique on the performance of free space optical communication link for different intensity modulation schemes. , 2015, , .		5
72	Spectral analysis of intensity modulation schemes in free space optical communications. IET Communications, 2015, 9, 909-916.	2.2	6

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73	Design and Development of a Distributed Mobile Sensing Based Crowd Evacuation System: A Big Actor Approach. , 2015, , .		5
74	Scriptable Sensor Network Applications for Rapid Development of Internet of Things. Network Protocols and Algorithms, 2014, 6, 37.	1.0	3
75	BER performance improvement of FSO links with aperture averaging and receiver diversity technique under various atmospheric conditions. , 2014, , .		13
76	Pratham: A Low-Cost Wireless Node with Programmable Radio Range and Over-the-Air Programming Capability for Resource-Constrained Applications. , 2014, , .		2
77	Effect of Link Margins and Frequency Granularity on the Performance and Modulation Format Sweet Spot of Multiple Flexgrid Optical Networks. , 2014, , .		6
78	Upgrading to low loss ROADMs and additional line amplifiers for increased capacity in EDFA and Raman flexgrid networks. , 2014, , .		2
79	Effect of link margin and frequency granularity on the performance of a flexgrid optical network. Optics Express, 2014, 22, 41.	3.4	15
80	Modulation techniques used in earth-to-satellite and inter-satellite free space optical links. Proceedings of SPIE, 2014, , .	0.8	5
81	Development of a wireless sensor network for animal management: Experiences with Moosense. , 2014, , .		6
82	Evaluation of performance of ground to satellite free space optical link under turbulence conditions for different intensity modulation schemes. Proceedings of SPIE, 2014, , .	0.8	14
83	Personalized Multimodal Geo-visualization through Inclusive User Modelling. Lecture Notes in Computer Science, 2014, , 279-287.	1.3	0
84	Comparison of Aperture Averaging and Receiver Diversity Techniques for Free Space Optical Links in Presence of Turbulence and Various Weather Conditions. Journal of Optical Communications, 2014, 35, .	4.7	5
85	Effect of atmospheric conditions and aperture averaging on capacity of free space optical links. Optical and Quantum Electronics, 2014, 46, 1139-1148.	3.3	28
86	Performance Analysis of FSO Array Receivers in Presence of Atmospheric Turbulence. IEEE Photonics Technology Letters, 2014, 26, 1165-1168.	2.5	67
87	Capacity of free space optical links with spatial diversity and aperture averaging. , 2014, , .		19
88	Performance analysis of OOK modulation scheme with spatial diversity in atmospheric turbulence. , 2014, , .		4
89	Effect of frequency granularity and Link Margin at 100G and beyond Flexgrid Optical Networks. , 2014, , .		5
90	Novel RSSI evaluation models for accurate indoor localization with sensor networks. , 2014, , .		16

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91	Interface Personalization through Inclusive User Modelling Web Service. , 2014, , .		4
92	Wireless Sensor Knowledge Archive. , 2013, , .		10
93	Study on FEC schemes for optical communication systems. , 2013, , .		0
94	Modifying open source tools for video pre-processing to achieve ultra low bandwidth for video surveillance over delay tolerant networks. , 2013, , .		0
95	A scriptable rapid application deployment framework for sensor networks. , 2013, , .		5
96	On implementing graded precision localization with sensor networks in indoor spaces. , 2013, , .		1
97	Effect of Link Margin on spectrum saving and advantages of flexgrid optical networking. , 2013, , .		2
98	Experimental study on aperture averaging in free space optical communication link. , 2013, , .		4
99	Performance improvement techniques for optical wireless link in presence of atmospheric turbulence. Proceedings of SPIE, 2013, , .	0.8	1
100	Performance Comparison of PIN and APD based FSO Satellite Systems for various Pulse Modulation Schemes in Atmospheric Turbulence. Communications and Network, 2013, 05, 200-203.	0.8	9
101	Effects of Turbulence on Beam Propagation in an OTG Chamber and Transmitted Beam Width Optimization. , 2012, , .		1
102	Design of a novel light-weight hardware module for wireless programming of resource-constrained embedded systems. , 2012, , .		2
103	Performance evaluation of different Pulse Position Modulation schemes in atmospheric turbulence channel for ground-to-satellite optical communication. , 2012, , .		8
104	Performance analysis and redundancy implementation of open source embedded router. , 2012, , .		2
105	Performance Analysis of Ground to Satellite FSO System with DAPPM Scheme in Weak Atmospheric Turbulence. , 2012, , .		9
106	BAAP: Blackhole attack avoidance protocol for wireless network. , 2011, , .		16
107	WHOP: Wormhole attack detection protocol using hound packet. , 2011, , .		44
108	A novel approach for finding optimal number of cluster head in wireless sensor network. , 2011, , .		9

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109	Experimental Study on Beam Wander Under Varying Atmospheric Turbulence Conditions. IEEE Photonics Technology Letters, 2011, 23, 1691-1693.	2.5	65
110	Performance Analysis of FSO Communication Using Different Coding Schemes. , 2011, , .		5
111	Evaluation of the performance of FSO system using OOK and M-PPM modulation schemes in inter-satellite links with turbo codes. , 2011, , .		7
112	Turbulence Characterization for Ground to Satellite MEMS Based Free Space Optical Communication System in Weak Atmospheric Turbulence Condition. , 2011, , .		1
113	Performance Improvement with Coding of Free Space Optical Ground to Satellite Link in Atmospheric Turbulence Environment. , 2011, , .		1
114	Performance Modeling of Cellular Mobile Systems: A Review of Recent Advances. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2010, 27, 15.	3.2	4
115	Ground-to-Satellite Optical Communication Link Performance with Spatial Diversity in Weak Atmospheric Turbulence. Fiber and Integrated Optics, 2010, 29, 315-340.	2.5	20
116	Platform broker architectutre: A framework for programmable smart spaces. , 2010, , .		0
117	Acquisition time for laser uplink communication to space-borne satellite using transmit diversity in atmospheric turbulence. , 2010, , .		1
118	Improvement of ground to satellite fso link performance using transmit diversity in weak atmospheric turbulence. , 2010, , .		8
119	Acquisition Time for Ground-to-Satellite Optical Communication System in Weak Atmospheric Turbulence with Spatial Diversity. Fiber and Integrated Optics, 2010, 29, 358-380.	2.5	0
120	Performance Analysis Of An Improved Graded Precision Localization Algorithm For Wireless Sensor Networks. International Journal of Computer Networks and Communications, 2010, 2, 150-159.	0.3	3
121	A Novel Algorithm for Graded Precision Localization in Wireless Sensor Networks. , 2009, , .		3
122	Analysis of UMTS radio channel access delay. Computer Communications, 2008, 31, 1877-1889.	5.1	2
123	Traffic Model and Performance Analysis of Cellular Mobile Systems for General Distributed Handoff Traffic and Dynamic Channel Allocation. IEEE Transactions on Vehicular Technology, 2008, 57, 3629-3640.	6.3	17
124	Performance of All-optical WDM Network in Presence of Four-wave Mixing, Optical Amplifier Noise, and Wavelength Converter Noise. Fiber and Integrated Optics, 2007, 26, 79-97.	2.5	16
125	Modeling and analysis of the optical burst switching network. Journal of Optical Networking, 2007, 6, 239.	2.5	1
126	Analysis of GPRS Radio Channel Access Delay. , 2007, , .		0

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127	Network Design and Performance Evaluation of an Early Warning Network. , 2007, , .		0
128	Advance Resource Reservation Protocols: Applications in Mobile Networks. IETE Journal of Research, 2006, 52, 215-227.	2.6	0
129	A comparative study of modified PUSCA and paired PUSCA strategies in WDM system. Optics Communications, 2006, 267, 215-223.	2.1	1
130	Effect of Four-Wave Mixing on Optimal Placement of Optical Amplifier in WDM Star Networks. Fiber and Integrated Optics, 2006, 25, 111-140.	2.5	21
131	Performance Enhanced Asynchronous Optical CDMA Systems using Double Hard-limiters and FEC Codes. Journal of Optical Communications, 2004, 25, .	4.7	0
132	Novel Strategies for Reducing FWM Using Modified Repeated Unequally Spaced Channel Allocation. Fiber and Integrated Optics, 2004, 23, 415-437.	2.5	13
133	Review of Physical Layer Related Issues in WDM Networks: Partâ€”1. IETE Journal of Research, 2004, 50, 257-268.	2.6	1
134	Review of Physical Layer Related Issues in WDM Networks: Part-II. IETE Journal of Research, 2004, 50, 269-280.	2.6	0
135	Advance Resource Reservation in High Speed Communication Networks: A Survey. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2003, 20, 319-332.	3.2	0
136	The Common Object Request Broker Architecture (CORBA) and its Notification Service. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2002, 19, 31-45.	3.2	0
137	Forward error correcting codes in fiber-optic synchronous code-division multiple access networks. Optics Communications, 2002, 202, 287-296.	2.1	8
138	Performance evaluation of PIN+OA and APD receivers in multi-wavelength CDMA and WaCDMA networks. Optics Communications, 2001, 191, 55-66.	2.1	4
139	Performance Evaluation of Fiber-optic Synchronous Code Division Multiple Access Networks with Parallel Cancellation Scheme for PIN+OA receiver. Journal of Optical Communications, 2001, 22, .	4.7	1
140	Performance analysis of a fiber optic CDMA LAN using a time-domain system model. , 2000, 4087, 37.		0
141	Statistical Self-Similarity in Broadband Traffic: Results and Performance Implications. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2000, 17, 29-36.	3.2	0
142	Enabling Voice Over the Internet. IETE Journal of Research, 1999, 45, 151-165.	2.6	0
143	<title>All-optical CDMA-based packet-switching element for ATM networks</title>. , 1999, , .		0
144	A Simulated Annealing Based Routing Sub-Heuristic for the Indirect Star Based ATM Network. IETE Journal of Research, 1999, 45, 293-298.	2.6	2

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145	Performance of fiber optic CDMA LANs with less-than-ideal components. , 1998, 3491, 513.		0
146	Code Division Multiple Access in Fiber Optic Networks. IETE Journal of Education Online, 1997, 38, 167-173.	0.6	0
147	Some Novel Photonic Guided-Wave Space-Switching Architectures. IETE Journal of Research, 1990, 36, 513-519.	2.6	0
148	Generation of Ti:LiNbO 3 Directional Coupler Based Photonic Switching Architectures With Optimal Substrate Real Estate Utilization. Proceedings of SPIE, 1990, , .	0.8	0