

Bhawani Shankar Chowdhry

List of Publications by Year in descending order

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Version: 2024-02-01

108
papers

803
citations

471061

17
h-index

642321

23
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115
all docs

115
docs citations

115
times ranked

633
citing authors

#	ARTICLE	IF	CITATIONS
1	Mobile DDR IO Standard Based High Performance Energy Efficient Portable ALU Design on FPGA. Wireless Personal Communications, 2014, 76, 569-578.	1.8	51
2	Challenges for practical applications of shape memory alloy actuators. Materials Research Express, 2020, 7, 073001.	0.8	38
3	Measurement of Ultralow Level Bioethanol Concentration for Production Using Evanescent Wave Based Optical Fiber Sensor. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 780-788.	2.4	37
4	Anchor Nodes Assisted Cluster-Based Routing Protocol for Reliable Data Transfer in Underwater Wireless Sensor Networks. IEEE Access, 2021, 9, 36730-36747.	2.6	32
5	A Review of Optical Fibre Ethanol Sensors: Current State and Future Prospects. Sensors, 2022, 22, 950.	2.1	32
6	IoT's Enable Active Contour Modeling Based Energy Efficient and Thermal Aware Object Tracking on FPGA. Wireless Personal Communications, 2015, 85, 529-543.	1.8	28
7	GCORP: Geographic and Cooperative Opportunistic Routing Protocol for Underwater Sensor Networks. IEEE Access, 2021, 9, 27650-27667.	2.6	28
8	MUHAFIZ: IoT-Based Track Recording Vehicle for the Damage Analysis of the Railway Track. IEEE Internet of Things Journal, 2021, 8, 9397-9406.	5.5	27
9	Pseudo-Cache-Based IoT Small Files Management Framework in HDFS Cluster. Wireless Personal Communications, 2020, 113, 1495-1522.	1.8	25
10	WSN Based Smart Control and Remote Field Monitoring of Pakistan's Irrigation System Using SCADA Applications. Wireless Personal Communications, 2017, 95, 491-504.	1.8	23
11	Storage-Tag-Aware Scheduler for Hadoop Cluster. IEEE Access, 2017, 5, 13742-13755.	2.6	22
12	Trustee: A Trust Management System for Fog-Enabled Cyber Physical Systems. IEEE Transactions on Emerging Topics in Computing, 2021, 9, 2030-2041.	3.2	21
13	Real time face detection/monitor using raspberry pi and MATLAB. , 2016, , .		19
14	SOCIO-ECONOMIC FACTORS AND THEIR INFLUENCE ON THE ADOPTION OF E-COMMERCE BY CONSUMERS IN SINGAPORE. International Journal of Information Technology and Decision Making, 2006, 05, 317-329.	2.3	18
15	Edge-Node-Aware Adaptive Data Processing Framework for Smart Grid. Wireless Personal Communications, 2019, 106, 179-189.	1.8	18
16	Stuck-at Fault Analytics of IoT Devices Using Knowledge-based Data Processing Strategy in Smart Grid. Wireless Personal Communications, 2019, 106, 1969-1983.	1.8	18
17	Stream-Based Authentication Strategy Using IoT Sensor Data in Multi-homing Sub-aqueous Big Data Network. Wireless Personal Communications, 2021, 116, 1217-1229.	1.8	18
18	DDI: A Novel Architecture for Joint Active User Detection and IoT Device Identification in Grant-Free NOMA Systems for 6G and Beyond Networks. IEEE Internet of Things Journal, 2022, 9, 2906-2917.	5.5	18

#	ARTICLE	IF	CITATIONS
19	Automated Controller Placement for Software-Defined Networks to Resist DDoS Attacks. Computers, Materials and Continua, 2021, 68, 3147-3165.	1.5	15
20	Stator Winding Fault Detection and Classification in Three-Phase Induction Motor. Intelligent Automation and Soft Computing, 2021, 29, 869-883.	1.6	13
21	Optimal Design of Remote Terminal Unit (RTU) for Wireless SCADA System for Energy Management. Wireless Personal Communications, 2013, 69, 999-1012.	1.8	10
22	Web Support System for Business Intelligence in Small and Medium Enterprises. Wireless Personal Communications, 2014, 76, 535-548.	1.8	10
23	Parameterized Disturbance Observer Based Controller to Reduce Cyclic Loads of Wind Turbine. Energies, 2018, 11, 1296.	1.6	10
24	A Compact Broadband High Gain Antenna Using Slotted Inverted Omega Shape Ground Plane and Tuning Stub Loaded Radiator. Wireless Personal Communications, 2020, 113, 499-518.	1.8	10
25	Development of IOT Based Smart Instrumentation for the Real Time Structural Health Monitoring. Wireless Personal Communications, 2020, 113, 1641-1649.	1.8	10
26	A Broadband High Gain Tapered Slot Antenna for Underwater Communication in Microwave Band. Wireless Personal Communications, 2021, 116, 1025-1042.	1.8	10
27	Multi-criteria assessment of smart city transformation based on SWOT analysis. , 2015, , .		9
28	Comparative Study and Packet Error Rate Analysis of Advance Modulation Schemes for Optical Wireless Communication Networks. Wireless Personal Communications, 2017, 95, 593-606.	1.8	9
29	Bloom's Taxonomy as a Pedagogical Model for Signals and Systems. International Journal of Electrical Engineering and Education, 2014, 51, 162-173.	0.4	8
30	Implementation of line tracking algorithm using Raspberry pi in marine environment. , 2014, , .		8
31	Estimation of Phase Angle Jump (PA) for Different Types of Faults and Unbalancing in Distribution System. International Journal of Engineering and Technology(UAE), 2018, 7, 23.	0.2	8
32	A New Estimation of Nonlinear Contact Forces of Railway Vehicle. Intelligent Automation and Soft Computing, 2021, 28, 823-841.	1.6	8
33	Unprecedented Smart Algorithm for Uninterrupted SDN Services During DDoS Attack. Computers, Materials and Continua, 2022, 70, 875-894.	1.5	8
34	Framework for Analysis of Power System Operation in Smart Cities. Wireless Personal Communications, 2014, 76, 399-408.	1.8	7
35	Efficient Variability Analysis of Photonic Circuits by Stochastic Parametric Building Blocks. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-8.	1.9	7
36	Adhesion level identification in wheel-rail contact using deep neural networks. 3C Tecnología, 0, , 217-231.	0.2	7

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37	Artificial Neural Networks to Solve the Singular Model with Neumann's Robin, Dirichlet and Neumann Boundary Conditions. <i>Sensors</i> , 2021, 21, 6498.	2.1	7
38	A Single-Channel Wireless EEG Headset Enabled Neural Activities Analysis for Mental Healthcare Applications. <i>Wireless Personal Communications</i> , 2022, 125, 3699-3713.	1.8	7
39	Experimental Evaluation of Vibration Response Based Bridge Damage Detection Using Wireless Sensor Networks. <i>Wireless Personal Communications</i> , 2015, 85, 499-510.	1.8	6
40	Towards Security of GSM Voice Communication. <i>Wireless Personal Communications</i> , 2019, 108, 1933-1955.	1.8	6
41	Active Disturbance Rejection Control Scheme for Reducing Mutual Current and Harmonics in Multi-Parallel Grid-Connected Inverters. <i>Energies</i> , 2019, 12, 4363.	1.6	6
42	A Novel Method Based on UNET for Bearing Fault Diagnosis. <i>Computers, Materials and Continua</i> , 2021, 69, 393-408.	1.5	6
43	Extended Kalman filter for estimation of contact forces at wheel-rail interface. <i>3C Tecnología</i> , 0, , 279-301.	0.2	6
44	The Smart Automobile (SAM): An Application Based on Drowsiness Detection, Alcohol Detection, Vital Sign Monitoring and Lane based Auto Drive to avoid Accidents. , 2020, , .		6
45	Lie detection in interrogations using digital signal processing of brain waves. , 2013, , .		5
46	A Novel Protocol with Patient and Node Identification for Optical WBAN with Inherent Security and Interference Rejection. <i>Wireless Personal Communications</i> , 2017, 95, 4211-4224.	1.8	5
47	WSN-based monitoring and fault detection over a medium-voltage power line using two-end synchronized method. <i>Electrical Engineering</i> , 2018, 100, 83-90.	1.2	5
48	Virtual Reality Based Visualization and Training of a Quadcopter by using RC Remote Control Transmitter. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 444, 052008.	0.3	5
49	Design and Analysis of Single-Bit Ternary Matched Filter. <i>Wireless Personal Communications</i> , 2019, 106, 1915-1929.	1.8	5
50	Silicon Oxycarbide Platform for Integrated Photonics. <i>Journal of Lightwave Technology</i> , 2020, 38, 784-791.	2.7	5
51	An Efficient Hybrid Cryptographic Algorithm, Consuming Less Time for Exchanging Information in Wireless Sensor Networks. <i>Wireless Personal Communications</i> , 2015, 85, 449-462.	1.8	4
52	A Novel Signal Regeneration Technique for High Speed DPSK Communication Systems. <i>Wireless Personal Communications</i> , 2017, 96, 3249-3273.	1.8	4
53	Ultra Wide Band (UWB) Horseshoe Antenna for Future Cognitive Radio Applications. <i>Wireless Personal Communications</i> , 2022, 122, 1087-1099.	1.8	4
54	Dynamic Routing and Coordination of Cluster for Unmanned Aerial Vehicle (UAV) Swarms. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-11.	0.6	4

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55	Object Tracking based on Active Contour Modeling. , 2014, , .		3
56	Monitoring of Gas Distribution Pipelines Network Using Wireless Sensor Networks. Wireless Personal Communications, 2021, 117, 2575-2594.	1.8	3
57	Development of Specialized IoT Cloud Platform for Railway Track Condition Monitoring. , 2021, , .		3
58	Fuzzy Based Backstepping Control Design for Stabilizing an Underactuated Quadrotor Craft under Unmodelled Dynamic Factors. Electronics (Switzerland), 2022, 11, 999.	1.8	3
59	Unsupervised detection of rail surface defects and rail-head anomalies using Auto-encoder. , 2022, , .		3
60	Successful Transformation of ICT Graduate Program: A Role Model for Developing Countries. Wireless Personal Communications, 2013, 69, 1013-1023.	1.8	2
61	The Analysis of the Artifacts due to the Simultaneous Use of Two Ultrasound Probes with Different/Similar Operating Frequencies. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-5.	0.7	2
62	Secure Coverage Tree Construction Scheme for Wireless Sensor Networks. Wireless Personal Communications, 2015, 82, 659-674.	1.8	2
63	Automated framework for CTA coronary segmentation and quantitative validation. , 2017, , .		2
64	Spectral Amplitude Coding Optical CDMA: Performance Analysis on Free Space Optical Channel. International Journal of Engineering and Technology(UAE), 2018, 7, 31.	0.2	2
65	Multi-Stage Mach-Zehnder Based Continuously Tunable Photonic Delay Line. Wireless Personal Communications, 2021, 121, 1221.	1.8	2
66	Corrections to "GCORP: Geographic and Cooperative Opportunistic Routing Protocol for Underwater Sensor Networks". IEEE Access, 2021, 9, 67734-67735.	2.6	2
67	Innovative Architecture to Enhance Quality of Service for Laboratory Management Information Systems. Advances in Healthcare Information Systems and Administration Book Series, 2015, , 237-251.	0.2	2
68	Visualization and Analysis of Wireless Sensor Network Data for Smart Civil Structure Applications Based On Spatial Correlation Technique. , 2009, , .		1
69	Comparison of D-Model and Wall-Attenuation Model for Signal Strength Estimations in Indoor Environment. , 2012, , .		1
70	Exchanging information in wireless sensor networks at very low time consumption rate in an efficient hybrid cryptographic algorithm. , 2014, , .		1
71	Implementation and testing of optimal design of RTU hardware for Wireless SCADA. , 2014, , .		1
72	Proposed Inductor Design for High Speed Digital Communication Systems through Divergence Analysis of Self Inductance and Variability in Permeability Values of Unaltered Human Hair. Wireless Personal Communications, 2014, 76, 479-487.	1.8	1

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73	Optimal power dispatch using model predictive control for energy deficit countries. , 2016, , .		1
74	Self-Configured Free Space Optical System Transceiver Algorithm for Extreme Weather Conditions. Wireless Personal Communications, 2017, 95, 539-556.	1.8	1
75	An Improved Model to Predict the Temperature Dependence of Refractive Index of InP-based Compounds. Wireless Personal Communications, 2017, 95, 607-615.	1.8	1
76	An Overview of Power Generation Potential of Pakistanâ€™s Wind Energy Corridor. , 2018, , .		1
77	Design of Low-Cost Smart Catâ€™s Eye Reflector Device for Damage Identification of a Bridge. , 2018, , .		1
78	Optimal Rotor Pole Study of Outward Rotor Switched Flux Permanent Magnet Machine for Downhole Application. , 2018, , .		1
79	Development of Optical Code Division Multiple Access Based System Using Spectral Amplitude Coding via Fiber Bragg Gratings (FBGs). Wireless Personal Communications, 2019, 108, 729-749.	1.8	1
80	Anti-fog System for High Speed Vehicles Using WI-FI. Wireless Personal Communications, 2019, 106, 71-83.	1.8	1
81	Innovative Architecture to Enhance Quality of Service for Laboratory Management Information Systems. , 2016, , 648-661.		1
82	Literacy and Socio-dynamics Cues Insights Decision Analytics for Care Plan Adherence. Wireless Personal Communications, 2020, 113, 1597-1613.	1.8	1
83	Recognition of Train Driver's Attention Using Haar Cascade. , 2021, , .		1
84	SAHWS:IoT-enabled Workflow Scheduler for Next-Generation Hadoop Cluster. , 2022, , .		1
85	An insight on decision-making and commercial software solutions. , 2009, , .		0
86	An External Approach to Improve the Information Content of Diagnostic Ultrasound Images. Communications in Computer and Information Science, 2012, , 101-109.	0.4	0
87	DAPDNA-2 Performance Enhancement Using ALU Partitioning and Saturation Arithmetic for Digital Image/Signal Processing Applications. , 2012, , .		0
88	Foreword by Guest Editors for the Special Issue on the 2012 International Conference on Mobility for Life: Technology, Telecommunication and Problem Based Learning (TTPBL) Conference. Wireless Personal Communications, 2013, 69, 995-998.	1.8	0
89	RCM: A User Friendly Router Configuration Machine. Wireless Personal Communications, 2013, 69, 1033-1046.	1.8	0
90	Framework for Impact Analysis of Green Smart Grid Deployment in Energy Deficit Countries. Communications in Computer and Information Science, 2014, , 1-12.	0.4	0

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91	Foreword by Guest Editors for the Special Issue on the 2013 International Conference on Mobility for Life: Technology, Telecommunication and Problem Based Learning (TTPBL). Wireless Personal Communications, 2014, 76, 311-316.	1.8	0
92	Hardware Implementation and Testing of Reconfigurable RTU for Wireless SCADA. Wireless Personal Communications, 2015, 85, 511-528.	1.8	0
93	Foreword by Guest Editors for the Special Issue on the 2014 International Conference on Mobility for Life: Technology, Telecommunication and Problem Based Learning (TTPBL). Wireless Personal Communications, 2015, 85, 325-328.	1.8	0
94	Foreword by Guest Editors for the Special Issue on the 2016 Global Conference on Wireless and Optical Communications (GCWOC™16). Wireless Personal Communications, 2017, 95, 215-221.	1.8	0
95	Comparative analysis for effectiveness of musical and ultrasound PWD mode signal to stimulate the fetal response. , 2017, , .		0
96	PSO based localization of multiple mobile robots employing LEGO EV3. , 2018, , .		0
97	Uncertainty aware design of photonic integrated circuits in presence of correlated manufacturing uncertainties. AIP Conference Proceedings, 2019, , .	0.3	0
98	Prediction of thermal variation in InP and GaAs material for photonic integrated waveguides. AIP Conference Proceedings, 2019, , .	0.3	0
99	Design of All-Optical 2-Regeneration for 40Gb/s NRZ-DPSK System. , 2019, , .		0
100	Polarization Agile Antenna for Underwater Communication Using Integrated Power Divider and Phase Shifter. Wireless Personal Communications, 2021, 116, 1137-1149.	1.8	0
101	Improving VLC Data Rate and Link Range Using Commercial Electronic Components. Wireless Personal Communications, 0, , 1.	1.8	0
102	Design and Implementation of a Pressure Sensor on Proteus. Communications in Computer and Information Science, 2014, , 46-55.	0.4	0
103	Prologue: Recent trends in computer science and engineering (RTCSE). 3C TechnologĀa, 0, , 19-25.	0.2	0
104	Road Condition Monitoring Using Axle-Based Acceleration Method and K-Means Clustering Algorithm. , 2021, , .		0
105	Defects Detection & Condition Assessment of Road Infrastructure Using Deep Learning Algorithm. , 2021, , .		0
106	Void Handling in Routing Protocols for Underwater Wireless Sensor Networks: A Quantitative Analysis. , 2021, , .		0
107	Development of a Wireless Track Recording Vehicle with a Low Environmental Impact: An Approach for Enhancing Railway Track Safety Standards. , 2022, , .		0
108	Performance Variability analysis of Multi-stage Mach-Zehnder based Photonic Integrated Delay Line. , 2022, , .		0