

# Bhawani Shankar Chowdhry

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4474193/publications.pdf>

Version: 2024-02-01

108  
papers

803  
citations

471061

17  
h-index

642321

23  
g-index

115  
all docs

115  
docs citations

115  
times ranked

633  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Ultra Wide Band (UWB) Horseshoe Antenna for Future Cognitive Radio Applications. Wireless Personal Communications, 2022, 122, 1087-1099.	1.8	4
3	Unprecedented Smart Algorithm for Uninterrupted SDN Services During DDoS Attack. Computers, Materials and Continua, 2022, 70, 875-894.	1.5	8
4	A Review of Optical Fibre Ethanol Sensors: Current State and Future Prospects. Sensors, 2022, 22, 950.	2.1	32
5	Fuzzy Based Backstepping Control Design for Stabilizing an Underactuated Quadrotor Craft under Unmodelled Dynamic Factors. Electronics (Switzerland), 2022, 11, 999.	1.8	3
6	Unsupervised detection of rail surface defects and rail-head anomalies using Auto-encoder. , 2022, , .		3
7	Development of a Wireless Track Recording Vehicle with a Low Environmental Impact: An Approach for Enhancing Railway Track Safety Standards. , 2022, , .		0
8	SAHWS:IoT-enabled Workflow Scheduler for Next-Generation Hadoop Cluster. , 2022, , .		1
9	Performance Variability analysis of Multi-stage Mach-Zehnder based Photonic Integrated Delay Line. , 2022, , .		0
10	A Single-Channel Wireless EEG Headset Enabled Neural Activities Analysis for Mental Healthcare Applications. Wireless Personal Communications, 2022, 125, 3699-3713.	1.8	7
11	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
12	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
13	Polarization Agile Antenna for Underwater Communication Using Integrated Power Divider and Phase Shifter. Wireless Personal Communications, 2021, 116, 1137-1149.	1.8	0
14	A Broadband High Gain Tapered Slot Antenna for Underwater Communication in Microwave Band. Wireless Personal Communications, 2021, 116, 1025-1042.	1.8	10
15	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
16	GCORP: Geographic and Cooperative Opportunistic Routing Protocol for Underwater Sensor Networks. IEEE Access, 2021, 9, 27650-27667.	2.6	28
17	A Novel Method Based on UNET for Bearing Fault Diagnosis. Computers, Materials and Continua, 2021, 69, 393-408.	1.5	6
18	Automated Controller Placement for Software-Defined Networks to Resist DDoS Attacks. Computers, Materials and Continua, 2021, 68, 3147-3165.	1.5	15

#	ARTICLE	IF	CITATIONS
19	Monitoring of Gas Distribution Pipelines Network Using Wireless Sensor Networks. Wireless Personal Communications, 2021, 117, 2575-2594.	1.8	3
20	A New Estimation of Nonlinear Contact Forces of Railway Vehicle. Intelligent Automation and Soft Computing, 2021, 28, 823-841.	1.6	8
21	Stator Winding Fault Detection and Classification in Three-Phase Induction Motor. Intelligent Automation and Soft Computing, 2021, 29, 869-883.	1.6	13
22	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
23	Dynamic Routing and Coordination of Cluster for Unmanned Aerial Vehicle (UAV) Swarms. Mathematical Problems in Engineering, 2021, 2021, 1-11.	0.6	4
24	Multi-Stage Mach-Zehnder Based Continuously Tunable Photonic Delay Line. Wireless Personal Communications, 2021, 121, 1221.	1.8	2
25	Corrections to "GCORP: Geographic and Cooperative Opportunistic Routing Protocol for Underwater Sensor Networks". IEEE Access, 2021, 9, 67734-67735.	2.6	2
26	Artificial Neural Networks to Solve the Singular Model with Neumann-Robin, Dirichlet and Neumann Boundary Conditions. Sensors, 2021, 21, 6498.	2.1	7
27	Road Condition Monitoring Using Axle-Based Acceleration Method and K-Means Clustering Algorithm. , 2021, , .		0
28	Recognition of Train Driver's Attention Using Haar Cascade. , 2021, , .		1
29	Defects Detection & Condition Assessment of Road Infrastructure Using Deep Learning Algorithm. , 2021, , .		0
30	Void Handling in Routing Protocols for Underwater Wireless Sensor Networks: A Quantitative Analysis. , 2021, , .		0
31	Development of Specialized IoT Cloud Platform for Railway Track Condition Monitoring. , 2021, , .		3
32	Silicon Oxycarbide Platform for Integrated Photonics. Journal of Lightwave Technology, 2020, 38, 784-791.	2.7	5
33	Pseudo-Cache-Based IoT Small Files Management Framework in HDFS Cluster. Wireless Personal Communications, 2020, 113, 1495-1522.	1.8	25
34	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
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	Development of IOT Based Smart Instrumentation for the Real Time Structural Health Monitoring. Wireless Personal Communications, 2020, 113, 1641-1649.	1.8	10

#	ARTICLE	IF	CITATIONS
37	Challenges for practical applications of shape memory alloy actuators. Materials Research Express, 2020, 7, 073001.	0.8	38
38	Literacy and Socio-dynamics Cues Insights Decision Analytics for Care Plan Adherence. Wireless Personal Communications, 2020, 113, 1597-1613.	1.8	1
39	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
40	Uncertainty aware design of photonic integrated circuits in presence of correlated manufacturing uncertainties. AIP Conference Proceedings, 2019, , .	0.3	0
41	Prediction of thermal variation in InP and GaAs material for photonic integrated waveguides. AIP Conference Proceedings, 2019, , .	0.3	0
42	Towards Security of GSM Voice Communication. Wireless Personal Communications, 2019, 108, 1933-1955.	1.8	6
43	Design of All-Optical 2-Regeneration for 40Gb/S NRZ-DPSK System. , 2019, , .		0
44	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
45	Anti-fog System for High Speed Vehicles Using WI-FI. Wireless Personal Communications, 2019, 106, 71-83.	1.8	1
46	Edge-Node-Aware Adaptive Data Processing Framework for Smart Grid. Wireless Personal Communications, 2019, 106, 179-189.	1.8	18
47	Active Disturbance Rejection Control Scheme for Reducing Mutual Current and Harmonics in Multi-Parallel Grid-Connected Inverters. Energies, 2019, 12, 4363.	1.6	6
48	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
49	Design and Analysis of Single-Bit Ternary Matched Filter. Wireless Personal Communications, 2019, 106, 1915-1929.	1.8	5
50	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
51	PSO based localization of multiple mobile robots employing LEGO EV3. , 2018, , .		0
52	WSN-based monitoring and fault detection over a medium-voltage power line using two-end synchronized method. Electrical Engineering, 2018, 100, 83-90.	1.2	5
53	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
54	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

#	ARTICLE	IF	CITATIONS
55	An Overview of Power Generation Potential of Pakistan's Wind Energy Corridor. , 2018, , .		1
56	Design of Low-Cost Smart Cat's Eye Reflector Device for Damage Identification of a Bridge. , 2018, , .		1
57	Optimal Rotor Pole Study of Outward Rotor Switched Flux Permanent Magnet Machine for Downhole Application. , 2018, , .		1
58	Parameterized Disturbance Observer Based Controller to Reduce Cyclic Loads of Wind Turbine. Energies, 2018, 11, 1296.	1.6	10
59	A Novel Protocol with Patient and Node Identification for Optical WBAN with Inherent Security and Interference Rejection. Wireless Personal Communications, 2017, 95, 4211-4224.	1.8	5
60	Automated framework for CTA coronary segmentation and quantitative validation. , 2017, , .		2
61	Self-Configured Free Space Optical System Transceiver Algorithm for Extreme Weather Conditions. Wireless Personal Communications, 2017, 95, 539-556.	1.8	1
62	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
63	A Novel Signal Regeneration Technique for High Speed DPSK Communication Systems. Wireless Personal Communications, 2017, 96, 3249-3273.	1.8	4
64	Storage-Tag-Aware Scheduler for Hadoop Cluster. IEEE Access, 2017, 5, 13742-13755.	2.6	22
65	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
66	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
67	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
68	Comparative analysis for effectiveness of musical and ultrasound PWD mode signal to stimulate the fetal response. , 2017, , .		0
69	Optimal power dispatch using model predictive control for energy deficit countries. , 2016, , .		1
70	Real time face detection/monitor using raspberry pi and MATLAB. , 2016, , .		19
71	Innovative Architecture to Enhance Quality of Service for Laboratory Management Information Systems. , 2016, , 648-661.		1
72	Hardware Implementation and Testing of Reconfigurable RTU for Wireless SCADA. Wireless Personal Communications, 2015, 85, 511-528.	1.8	0

#	ARTICLE	IF	CITATIONS
73	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
74	Secure Coverage Tree Construction Scheme for Wireless Sensor Networks. Wireless Personal Communications, 2015, 82, 659-674.	1.8	2
75	Multi-criteria assessment of smart city transformation based on SWOT analysis. , 2015, , .		9
76	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
77	An Efficient Hybrid Cryptographic Algorithm, Consuming Less Time for Exchanging Information in Wireless Sensor Networks. Wireless Personal Communications, 2015, 85, 449-462.	1.8	4
78	Experimental Evaluation of Vibration Response Based Bridge Damage Detection Using Wireless Sensor Networks. Wireless Personal Communications, 2015, 85, 499-510.	1.8	6
79	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
80	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
81	Exchanging information in wireless sensor networks at very low time consumption rate in an efficient hybrid cryptographic algorithm. , 2014, , .		1
82	Object Tracking based on Active Contour Modeling. , 2014, , .		3
83	Implementation of line tracking algorithm using Raspberry pi in marine environment. , 2014, , .		8
84	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
85	Implementation and testing of optimal design of RTU hardware for Wireless SCADA. , 2014, , .		1
86	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
87	Framework for Analysis of Power System Operation in Smart Cities. Wireless Personal Communications, 2014, 76, 399-408.	1.8	7
88	Mobile DDR IO Standard Based High Performance Energy Efficient Portable ALU Design on FPGA. Wireless Personal Communications, 2014, 76, 569-578.	1.8	51
89	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
90	Web Support System for Business Intelligence in Small and Medium Enterprises. Wireless Personal Communications, 2014, 76, 535-548.	1.8	10

#	ARTICLE	IF	CITATIONS
91	Design and Implementation of a Pressure Sensor on Proteus. Communications in Computer and Information Science, 2014, , 46-55.	0.4	0
92	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
93	Optimal Design of Remote Terminal Unit (RTU) for Wireless SCADA System for Energy Management. Wireless Personal Communications, 2013, 69, 999-1012.	1.8	10
94	Successful Transformation of ICT Graduate Program: A Role Model for Developing Countries. Wireless Personal Communications, 2013, 69, 1013-1023.	1.8	2
95	RCM: A User Friendly Router Configuration Machine. Wireless Personal Communications, 2013, 69, 1033-1046.	1.8	0
96	Lie detection in interrogations using digital signal processing of brain waves. , 2013, , .		5
97	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
98	An External Approach to Improve the Information Content of Diagnostic Ultrasound Images. Communications in Computer and Information Science, 2012, , 101-109.	0.4	0
99	Comparison of D-Model and Wall-Attenuation Model for Signal Strength Estimations in Indoor Environment. , 2012, , .		1
100	DAPDNA-2 Performance Enhancement Using ALU Partitioning and Saturation Arithmetic for Digital Image/Signal Processing Applications. , 2012, , .		0
101	An insight on decision-making and commercial software solutions. , 2009, , .		0
102	Visualization and Analysis of Wireless Sensor Network Data for Smart Civil Structure Applications Based On Spatial Correlation Technique. , 2009, , .		1
103	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
104	Virtual Reality Based Visualization and Training of a Quadcopter by using RC Remote Control Transmitter. IOP Conference Series: Materials Science and Engineering, 0, 444, 052008.	0.3	5
105	Improving VLC Data Rate and Link Range Using Commercial Electronic Components. Wireless Personal Communications, 0, , 1.	1.8	0
106	Adhesion level identification in wheel-rail contact using deep neural networks. 3C Tecnología, 0, , 217-231.	0.2	7
107	Extended Kalman filter for estimation of contact forces at wheel-rail interface. 3C Tecnología, 0, , 279-301.	0.2	6
108	Prologue: Recent trends in computer science and engineering (RTCSE). 3C Tecnología, 0, , 19-25.	0.2	0