



# BUITEMS

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<b>Designation</b>	ASSISTANT PROFESSOR			
<b>Department</b>	ELECTRICAL ENGINEERING			
<b>Faculty</b>	Faculty of information and communication technology			
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<b>Qualification</b>				
Year	Degree/Certificate	Name of the Institute/ University	Field of study	
2022	Post doctorate	International Islamic University Malaysia	Antenna design	
2019	PhD	Changchun university of science and technology China	Information and communication engineering with specialization in Signal processing	
2012	MS	Linnaeus university Sweden	Electrical engineering with specialization in signal processing and wave propagation	
2008	Graduation	University of engineering and technology Peshawar	Electronic engineering	
<b>Publications in HEC Recognized journals</b>				
S. No	Title of Paper	Name of Journal	National/ International	Publication date
1.	Advancements in Neighboring-Based Energy-Efficient Routing Protocol (NBEER) for Underwater Wireless Sensor Networks	MDPI Sensors	International	2023
2.	Interference in photo-detachment of triatomic negative ion near a hard reflecting surface	International Journal of Quantum Chemistry	International	2022

3.	The Role of ML, AI and 5G Technology in Smart Energy and Smart Building Management	MDPI Electronics		
4.	On Disharmony in Batch Normalization and Dropout Methods for Early Categorization of Alzheimer's Disease	MDPI Sustainability	International	2022
5.	Application of Nondestructive Techniques to Investigate Dissolvable Amorphous Metal Tungsten Nitride for Transient Electronics and Devices	MDPI Electronics	International	2022
6.	Smart Android Based Home Automation System Using Internet of Things (IoT)	MDPI Sustainability	International	2022
7.	A Novel Design and Development of a Strip-Fed Circularly Polarized Rectangular Dielectric Resonator Antenna for 5G NR Sub-6GHz Band Applications	MDPI Sensors	International	2022
8.	Ultra-Wideband Pentagonal Fractal Antenna with Stable Radiation Characteristics for Microwave Imaging Applications	MDPI Electronics	International	2022
9.	High Performance Eight-Port Dual-Band MIMO Antenna System for 5G Devices	MDPI Micromachines	International	2022
10.	A Novel Single-Fed Dual-Band Dual-Circularly Polarized Dielectric Resonator Antenna for 5G Sub-6GHz Applications	MDPI Applied Sciences	International	2022
11.	Secrecy Performance by Power Splitting in Cooperative Dual-Hop Relay Wireless Energy Harvesting	Hindawi Wireless Communications and Mobile Computing	International	2022
12.	A New mm-Wave Antenna Array with Wideband Characteristics for Next Generation Communication Systems	MDPI Electronics	International	2022

13.	mmWave Four-Element MIMO Antenna for Future 5G Systems	MDPI Applied Sciences	International	2022
14.	Linearly Polarized Millimeter Wave Reflect array with Mutual Coupling Optimization	Computers, Materials & Continua	International	2022
15.	5G Antenna Gain Enhancement Using a Novel Metasurface	Computers, Materials & Continua	International	<b>2022</b>
16.	Observer Design Estimating the Propofol Concentration in PK-PD Model with Integral Super-Twisting Sliding Mode Control of Anesthesia Administration	Archives of Control Sciences	International	<b>2022</b>
17.	Optimal Siting of Distributed Generation Unit in Power Distribution System considering Voltage Profile and Power Losses	Hindawi	International	<b>2022</b>
18.	On Improved 3D-CNN-Based Binary and Multiclass Classification of Alzheimer's Disease Using Neuroimaging Modalities and Data Augmentation Methods	Hindawi	International	2022
19.	Physical Layer Secrecy by Power Splitting and Jamming in Cooperative Multiple Relay Based on Energy Harvesting in Full-Duplex Network	Electronics MDPI	International	2022
20.	Four-Port MIMO Antenna System for 5G n79 band RF Devices	Electronics MDPI	International	2022
21.	An Eight Element Dual Band Antenna for Future 5G Smartphones	Electronics MDPI	International	2022
22.	A Novel Shape Compact Antenna for Ultra-wide band Applications	International Journal of Antennas and Propagation	International	2021
23.	MIMO Antenna System for Modern 5G Handheld Devices with Healthcare and High Rate Delivery	Sensors MDPI	International	2021
24.	Garbage Collector Robot	Indian Journal of science and technology	International	2020

25.	All Seawater Parameters Analysis for All Seasons from 2005 -2017 using Real Time Data from National Center for Environmental Information	International Journal of Future Generation Communication and Networking	International	2020
26.	New Analysis of All Seas Water Parameters for All May Months from 2005 to 2017 using Real Time Data” International Journal of Future Generation Communication and Networking	International Journal of Future Generation Communication and Networking	International	2020
27.	Motion based smart assistant for visually impaired people	Indian Journal of science and technology	International	2020
28.	New Analysis of All Seas Water Parameters for All February Months from 2005 to 2017 using Real Time Data	International Journal of Future Generation Communication and Networking	International	2020
29.	New Analysis of All Seas Water Parameters for All January Months from 2005 to 2017 using Real Time Data	International Journal of Future Generation Communication and Networking	International	2020
30.	New Analysis of All Seas Water Parameters for All March Months from 2005 to 2017 using Real Time Data	International Journal of Future Generation Communication and Networking	International	2020
31.	Sea Water Parameters Analysis from 2005 to 2017 of all Seas of the World Using Real Time Data	International Journal of Future Generation Communication and Networking	International	2020
32.	Effective Computational Techniques of Reducing Cogging Torque in Permanent Magnet Flux Switching Machine	Journal of applied and emerging sciences	National	2020
33.	ZigBee-based Parameter Monitoring and Controlling Scheme for Multiple DC Motors	Indian Journal of science and technology	International	2020
34.	Smart Meter with Load Management and Electrical Theft Control	Journal of computing and management studies	International	2019

35.	Intelligent control of wind-Assisted PHEVs Smart charging station	Energies MDPI	International	2019
36.	Energy Management and Switching Control of PHEV Charging Stations in a Hybrid Smart Micro-Grid System	Electronics MDPI	International	2018
37.	New Permittivity Measurement from Surface of Sea to 5500 m Depth of Sea using Sea Water Real Time Data from National Oceanic and Atmospheric Administration (USA)",	American Scientific Research Journal for Engineering, Technology, and Sciences (ASRJETS)	International	2017
38.	Computer Based Analysis of Sea Water Conductivity Using Real Time Data	Journal of computing and management studies,	International	2017
39.	Analysis of refraction loss, Attenuation and wave length of electromagnetic waves from surface of sea to 5500 m depth of sea using sea water real time data at 15KHz Frequency	European Journal of Engineering and Technology	International	2017
40.	Resolution Analysis of Grey Scale Image using Spherical Harmonics (SPH) Method	Indian Journal of science and technology	International	2016
41.	An Efficient Diode Clamped Multilevel Inverterfor Reducing THD with Selective Harmonic Elimination Pulse Width Modulation (SHEPWM)	International Journal of Scientific Engineering and Technology	International	2015
42.	Formulation of low level heuristics	International Journal of Scientific Engineering and Technology	International	2015
43.	Implementation & Comparative Analysis of 10, 18 & 24 Level Diode Clamped Inverters Using Trust Region Dog Leg" Method	Scientific Research Publishing	International	2015
44.	Supercapacitors Energy Storage Based DSTATCOM Modeling and Simulation for Distribution System (Smart Grid)",	International Journal of Scientific Engineering and Technology	International	2015
<b>Paper Presented in conference</b>				

S. No	Title of Paper	Name of Conference	National/ International	Date
1	An Intelligent Automation of Power Transformer using PLC and SCADA at Substation	<i>EASE '23: Proceedings of the 27th International Conference on Evaluation and Assessment in Software Engineering</i>	International	2023
2	The Advancements in 6G Technology based on its Applications, Research Challenges and Problems: A Review	<i>EASE '23: Proceedings of the 27th International Conference on Evaluation and Assessment in Software Engineering</i>	International	2023
3	Comparative Analysis of Fuzzy and Neural Controller for a Boost Converter	<i>EASE '23: Proceedings of the 27th International Conference on Evaluation and Assessment in Software Engineering</i>	International	2023
4	Maximum power harvesting using fuzzy logic MPPT Controller	IEEE	International	2021
5	Design and control of Generated Electricity using solar powered stirling	IEEE	International	2021
6	Modeling and Stability Enhancement of Wind Turbine using Linear Quadratic Regulator”	IEEE	International	2021
7	A Comparative Study of Maximum Power Point Tracking Techniques for Solar Systems”	IEEE	International	2020
8	IOT Based smart meter	IEEE	International	2020
9	Intelligent surveillance camera using PCA	IEEE	International	2020
10	Gesture Controlled Hexacopter using MEMS Technology”	IEEE	International	2020
11	Steady State Analysis of HVDC Transmission System Based on MATLAB/SIMULINK	IEEE	International	2019

12	Sensor Based Smart Office Control System	IEEE	International	2019
13	Design and Control of Magnetic Levitation System	IEEE	International	2019
14	Control System for Spinning Machine Induction Motor using PLC	IEEE	International	2019
15	A Bidirectional Wireless Power Transfer for Electric Vehicle Charging in V2G System	IEEE	International	2019
16	Removal of Voltage Transients by PWM Switched Autotransformer & PI-Controller	IEEE	International	2019
17	Fuzzy Logic Based Calculation and Analysis of Health Index for Power Transformer Installed in Grid Stations	IEEE	International	2019
18	Research on the protection of Hybrid HVDC System	IEEE	International	2018
19	Development of a Monitoring system based on Lab VIEW and MATLAB for a Hybrid power supply	IEEE	International	2018
20	Performance of Different MPPT Control Techniques for Photovoltaic Systems	IEEE	International	2018
21	An Intelligent Pitch Angle Control of Wind Turbine	IEEE	International	2017

#### Books Authored/ Edited

S. No	Name of book	Publisher	ISBN
1		Lap LAMBERT academic publishing	978-3-659-26288-3

#### Work Experience

S. No	From (year)	To (year)	Name of the Institution/ Organization	Position held
1.	2012	To-Date	BUIITEMS	Assistant Professor
2.	2009	2010	GBR Juices	Electrical engineer

#### Area of specialization

Signal processing and wave propagation

#### Research Interest

- Signal processing and wave propagation and image processing

#### Future Research Plans

Analysis of sea water parameters

<b>Expertise</b>	<ul style="list-style-type: none"><li>• Mat lab</li></ul>
<b>HEC Approved supervisor</b>	yes
<b>If Yes, provide HEC URL</b>	<i>e.g.</i> <a href="https://hec.gov.pk/english/scholarshipsgrants/ASA/Pages/SearchaSupervisor.aspx">https://hec.gov.pk/english/scholarshipsgrants/ASA/Pages/SearchaSupervisor.aspx</a>
<b>Research grants/ Projects</b>	<ul style="list-style-type: none"><li>• SEARCHING</li></ul>
<b>Additional Information</b>	<b>nil</b>