



University of Central Punjab, Lahore

Faculty of Engineering (FOE) - 2023

▪ Journal Publications

Sr. No.	Faculty Member's Name	Publication Title	Journal	Category	Impact Factor	Year
1	Sadaf Zeeshan	The Design and Evaluation of an Orange-Fruit Detection Model in a Dynamic Environment Using a Convolutional Neural Network	Sustainability	W	3.889	2023
2	Muhammad Aamir Hayat & Dr. Ali Faisal Murtaza	Design and Analysis of Input Capacitor in DC-DC Boost Converter for Photovoltaic-Based Systems	Sustainability	W	3.889	2023
3	Ali Ahmad	Coordinated Economic Operation of Hydrothermal Units with HVDC Link Based on Lagrange Multipliers	Mathematics	W	2.592	2023
4	Muhammad Shehzad Ashraf	Assessment of Variability in Hydrological Droughts Using the Improved Innovative Trend Analysis Method	Sustainability	W	3.889	2023
5	Dr Muhammad Kashif	BPNN model based AI for the estimation of soot data from flame luminosity emissions in H ₂ /N ₂ diluted ethylene laminar diffusion flames	Experimental Thermal and Fluid Science	W	3.2	2023
6	Dr. Ali Faisal Murtaza	A Reconfiguration Circuit to Boost the Output Power of a Partially Shaded PV String	Energies	W	3.252	2023

7	Dr. Ali Faisal Murtaza	Maximum Power Point Tracking Algorithm of Photo-Voltaic Array through Determination of Boost Converter Conduction Mode	Applied Sciences (Switzerland)	W	2.7	2023
8	Dr Muhammad Saadi	IoT based real-time traffic monitoring system using images sensors by sparse deep learning algorithm	Computer Communications	W	6	2023
9	Dr Muhammad Saadi	Simulation-Based Headway Optimization for the Bangkok Airport Railway System under Uncertainty	Electronics (Switzerland)	W	2.9	2023
10	Dr Muhammad Saadi	AsQM: Audio Streaming Quality Metric Based on Network Impairments and User Preferences	IEEE Transactions on Consumer Electronics	W	4.3	2023
11	Dr Muhammad Saadi	Transfer Learning Approach to IDS on Cloud IoT Devices Using Optimized CNN	IEEE Access	W	3.476	2023
12	Dr Muhammad Saadi	Reversible encryption and lossless data hiding for medical imaging aiding smart health care	Cluster Computing	W	3.6	2023
13	Dr. Ali Faisal Murtaza	State-Space Modeling, Design, and Analysis of the DC-DC Converters for PV Application: A Review	Sustainability	W	3.3	2023
14	Dr Muhammad Akram Tahir	Interfacial Performance between Repairing Mortars and Substrate Lime: Bond Strength and Carbonation	Journal of Materials in Civil Engineering	W	3.651	2023
15	Dr. Ali Faisal Murtaza	An improved sliding mode control-based GMPPT algorithm for photovoltaic system	Transactions of the Institute of Measurement and Control	X	1.8	2023
16	Dr. Ali Faisal Murtaza	An improved 0.8 Voc model-based global maximum power point tracking algorithm for photovoltaic system	International Journal of Circuit Theory and Applications	X	2.3	2023

17	Sadaf Zeeshan	Design and Analysis of a Solar Energy System for a Fruit Harvesting Robot in Pakistan	Acta Technologica Agriculturae	X	1.4	2023
18	Dr. Muhammad Saadi & Arslan Ashraf	The Impact of Phase-Locked Loop (PLL) Architecture on Sub-Synchronous Control Interactions (SSCI) for Direct-Driven Permanent Magnet Synchronous Generator (PMSG)-Based Type 4 Wind Farms	World Electric Vehicle Journal	X	2.3	2023
19	Dr. Muhammad Rizwan Shad	A novel configuration of a dual concentrated photovoltaic system: Thermal, optical, and electrical performance analysis	Thermal Science	X	1.971	2023
20	Dr. Muhammad Majid Gulzar	Load frequency regulation of interconnected multi-source multi-area power system with penetration of electric vehicles aggregator model	Electrical Engineering	X	1.8	2023
21	Dr Muhammad Saadi	A novel deep deterministic policy gradient model applied to intelligent transportation system security problems in 5G and 6G network scenarios	Physical Communication	X	2.379	2023
22	Khizer Ahmed Zaki	IMPACT OF TEACHER-STUDENT FAVORITISM ON STUDENTS' LEARNING OUTCOMES AT UNIVERSITY LEVEL	Journal of Social Research Development	Y	Non-Impact Factor	2023
23	Dr Muhammad Kashif	Design of a Chassis Dynamometer Facility for the European Type-Approval of Passenger Cars Manufactured in Pakistan †	Engineering Proceedings	Y	Non-Impact Factor	2023
24	Sadaf Zeeshan	Performance Analysis of Path Planning Algorithms for Fruit Harvesting Robot	Journal of Biosystems Engineering	Y	Non-Impact Factor	2023

25	Dr Muhammad Awais Shafique	Comparative analysis of alternative fuels and powertrains for goods transport vehicles: A case study of Catalonia, Spain	Pakistan Journal of Engineering and Applied Sciences	Y	Non-Impact Factor	2023
26	Dr Muhammad Awais Shafique	Developing a Vehicle Selection Procedure for Logistic Operators of Catalonia, Spain	Pakistan Journal of Engineering and Applied Sciences	Y	Non-Impact Factor	2023

▪ **Conference & Miscellaneous Publications**

Sr. No.	Faculty Member's Name	Paper Title	Conference Title	Year
1	Dr Ali Faisal Murtaza	A Series Resonant Network based Boost Converter	International Conference on Emerging Power Technologies (ICEPT)	2023
2	Dr Muhammad Kamran Saleem	Design and Miniaturization of Dual Band Filter based on Quarter Wavelength Resonators	IEEE International Conference on Energy, Power, Environment, Control, and Computing	2023
3	Dr Fesal Toosy	The Impact of Gender on Female Engineering Students	IEEE International Conference on Teaching, Assessment and Learning in Engineering	2023
4	Dr Muhammad Saadi	A Novel Resource Allocation in Software-Defined Networks for IoT Application	SoftCOM 2023: International Conference on Software, Telecommunications and Computer Networks 2023	2023
5	Dr Muhammad Saadi	Unified Approach to Video-Based AI Inference Tasks in Augmented Reality Systems Assisted by Mobile Edge Computing	SoftCOM 2023: International Conference on Software, Telecommunications and Computer Networks 2023	2023
6	Ali Ahmad	Comparison of Genetic Algorithm and Particle Swarm Optimization for DC Optimal Power Flow	IEEE International Conference on Multi Topic	2023