



University of Central Punjab

(Incorporated by Ordinance No. XXIV of 2002 promulgated by Government of the Punjab)

Faculty of Engineering (FOE)

▪ Journal Publications 2025

Sr. No.	Faculty Member's Name	Designation	Title of Publication	Name of Journal	HEC Category of Journal	Journal's Impact Factor
1	Dr Muhammad Rizwan Shad	Dean	A methodology for estimating radiofrequency signal attenuation from rainfall and atmospheric gases in 5G-and-beyond networks	IET Networks	X	1.4
2	Dr Muhammad Babur	Associate Professor	Prediction of splitting tensile strength of fiber-reinforced recycled aggregate concrete utilizing machine learning models with SHAP analysis	Hybrid Advances	Other than	Non-Impact Factor
3	Dr Muhammad Babur	Associate Professor	Using applications of machine learning models for predicting and analyzing scour depth at the submerged weir	Journal of Hydroinformatics	W	2.4
4	Dr Muhammad Babur	Associate Professor	Integrating statistical distributions with machine learning to model IDF curve shifts under future climate pathways	Frontiers in Environmental Science	W	3.7
5	Dr Muhammad Awais Shafique	Associate Professor	Exploring driver trajectory preferences for unprotected left turns and the impact on traffic safety	Promet – Traffic & Transportation	W	Non-Impact Factor



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6	Dr Muhammad Awais Shafique	Associate Professor	A literature review: AI models for road safety for prediction of crash frequency and severity	Discover Engineering	Civil	Other than	Non-Impact Factor
7	Dr Muhammad Kamran Saleem	Associate Professor	Hybrid load-pull and nonlinear embedding approach for high-efficiency GaN Class-F/F ⁻¹ power amplifier design in satellite applications	IEEE Access		W	3.3
8	Dr Muhammad Kamran Saleem	Associate Professor	Machine learning methods for design and analysis of a rocket nosecone	International Journal of Aeronautical and Space Sciences		W	1.4
9	Dr Muhammad Kamran Saleem	Associate Professor	Near-field metasurface sensor for an early-stage breast cancer detection	Sensors International		Other than	Non-Impact Factor
10	Sadaf Zeeshan	Assistant Professor	Analysis of the impact of damage rate on the performance of orange fruit harvesting robot	Ain Shams Engineering Journal		W	5.9
11	Sadaf Zeeshan	Assistant Professor	Data-driven trajectory optimization in robotic fruit harvesting via deep learning-based perception, gripper configuration, and fruit morphometrics	Engineering Research Express (ERX)		X	1.6
12	Sadaf Zeeshan	Assistant Professor	Energy transition towards electric vehicle technology: Recent advancements	Energy Reports		W	5.1
13	Sadaf Zeeshan	Assistant Professor	Enhancing peak performance forecasting in steam power plants through innovative AI-driven exergy-energy analysis	Energy Conversion and Management: X		W	7.6
14	Sadaf Zeeshan	Assistant Professor	Automated carrot harvesting machine with YOLOv8 for precision and optimal efficiency	Journal of Engineering		X	2.3



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15	Dr Muhammad Kashif	Professor	Thermo-Fluidic characterization of different protuberance shapes upstream of transverse trench on the film cooling performance	International Journal of Heat and Fluid Flow	W	3.1
16	Dr. Muhammad Kafeel	Associate Professor	Multi-objective optimization of sustainable fly ash cement bricks considering compressive strength and carbon emission	Engineering Applications of Artificial Intelligence	W	8.0
17	Dr. Riaz	Associate Professor	Improving the efficiency of a hybrid grid system through nutcracker optimization algorithm based TDFOPi control	International Journal of Energy Research	W	4.2