S. No.	Title of Publication	Author(s)	Year	Journal / Conference
1	Design of an EnergyPlus Model Based Smart Controller for Maintaining Thermal Comfortable Environment in Non-Domestic Building	Naseem, T. and Javed, A. and Humayun, M.T and Jawad, M. and Ansari, E.A and Fayyaz, Muhammad A.B. and Ansari, A.R and Nawaz, R	2023	IEEE Access
2	Online Mode of Teaching and Learning Process in Engineering Discipline: Teacher Perspective on Challenges Faced and Recommendations	Saleem Akhtar, Muhammad Nadeem, Mostafa Rashdan, Bashir Hussain, Ejaz A. Ansari and M. Hassan Aslam	2023	Education Sciences
3	Hybrid Learning based Radio Resource Management in 5G Heterogeneous Networks	Muhammad Usman Iqbal, Ejaz Ahmad Ansari, Saleem Akhtar, Muhammad Nadeem Rafiq, Muhammad Farooq-i-Azam, Beenish Hassan:	2023	Pakistan Journal of Science and Technology
4	Optimal Learning Paradigm and Clustering for Effective Radio Resource Management in 5G HetNets	Muhammad Usman Iqbal, Ejaz Ahmad Ansari, Saleem Akhtar, Muhammad Farooq-i-Azam, Syed Raheel Hassan, Rameez Asif	2023	IEEE Access
5	Energy Efficiency and Throughput Optimization in 5G Heterogeneous Networks	R. Arshad, M. Farooq-i-Azam, R. Muzzammel, A. Ghani, and C. H. See	2023	Electronics
6	A distance vector hop-based secure and robust localization algorithm for wireless sensor networks	R. Asif, M. Farooq-i-Azam, M. H. Chaudary, A. Husen, and S. R. Hassan,	2023	Electronics
7	Probability distribution of transient response of an electric circuit	M. Farooq-i-Azam, A. Siddiq, and M. U. Iqbal,	2023	Pakistan Journal of Engineering and Technology
8	An investigation of the transient response of an RC circuit with an unknown capacitance value using probability theory	M. Farooq-i-Azam, Z. H. Khan, A. Ghani, and A. Siddiq,	2023	Symmetry
9	A Conceptual Multi-Layer Framework for the Detection of Nighttime Pedestrian in Autonomous Vehicles using Deep Reinforcement Learning	Muhammad Shoaib Farooq, Haris Khalid, Ansif Arooj, Tariq Umer, Aamer Bilal Asghar, Jawad Rasheed, Raed M. Shubair, Amani Yahyaoui	2023	Entropy
10	Ordering Technique for the Maximum Power Point Tracking of an Islanded Solar Photovoltaic System	Muhammad Mateen Afzal Awan, Aamer Bilal Asghar, Muhammad Yaqoob Javed, Zsolt Conka,	2023	Sustainability
11	A Physically based Air Proportioning Methodology for Optimized Combustion in Gas-Fired Boilers Considering Both Heat Release and NOx Emissions	Guolin Xiao, Xiaori Gao, Wei Lu, Xiaodong Liu, Aamer Bilal Asghar, Liu Jiang, Wenlin Jing	2023	Applied Energy

12	Neuro-Fuzzy System Based Proportional Derivative Gain Optimized Attitude Control of CubeSat under LEO Perturbations	Muhammad Faisal Shehzad, Aamer Bilal Asghar, Mujtaba Hussain Jaffery, Khazina Naveed, Zsolt Conka	2023	Heliyon
13	Comparative Performance Analysis of Machine Learning Algorithms for Arm and Shoulder Exercises using Wrist-worn Band	Aamer Bilal Asghar, Maham Majeed, Abdullah Taseer, Muhammad Burhan Khan, Khazina Naveed, Mujtaba Hussain Jaffery, and Krzysztof Ejsmont	2023	IEEE Access
14	Reinforcement learning-based composite differential evolution for integrated demand response scheme in industrial microgrids	Neelam Mughees, Mujtaba Hussain Jaffery, Anam Mughees, Ejaz Ahmad Ansari and Abdullah Mughees	2023	Applied Energy
15	A novel automated demand response control using fuzzy logic for islanded battery-operated rural microgrids	Fawad Azeem, Zulfiqar Ali Memon, Sobia Baig, Tareq Manzoor, Faisal Abbas, Mohd Asif Shah	2023	IET Renewable Power Generation
16	Performance Analysis of Orthogonal Multiplexing Technique for PLC Systems with Low Cyclic Prefix Length and Symbol Timing Offset	Túlio Fernandes Moreira, Ândrei Camponogara, Sobia Baig and Moisés Vidal Ribeiro	2023	Sensors
17	On Scalability of FDD-Based Cell-Free Massive MIMO Framework	Beenish Hassan, Sobia Baig, and Saad Aslam	2023	Sensors
18	Design and assessment of energy management strategy on rail coaches using solar PV and battery storage to reduce diesel fuel consumption	Abdullah Tariq Sipra, Fawad Azeem, Zulfiqar Ali Memon, Sobia Baig, Mujtaba Hussain Jaffery	2023	Energy
19	A two-way pre-installation assessment framework for microgrids under power systems expansion planning", Sustainable Energy Technologies and Assessments	Fawad Azeem, Zulfiqar Ali Memon, Sobia Baig, Ahmed Bilal Awan	2023	Sustainable Energy Technologies and Assessments
20	Phenomenological modeling of memristor fabricated through screen printing based on the structure of Ag/Polymer/Cu	Mubeen Zafar, Muhammad Naeem Awais, Muhammad Naeem Shehzad, Aneeqa Maqsood and Aamir Razzak	2023	Journal of Computational Electronics
21	Feature Transformation for Efficient Blood Glucose Prediction in Type 1 Diabetes Mellitus Patients	Hatim Butt, Ikramullah Khosa, Muhammad Aksam Iftikhar	2023	Diagnostics
22	Fault-Level Grading of Photovoltaic Cells Employing Lightweight Deep Learning Models	Ikramullah Khosa, Abdur rahman, Khurram Ali, Jahanzeb Akhtar, Ammar Armghan, Jehangir Arshad, Melkamu Deressa Amentie	2023	Computational Intelligence and Neuroscience
23	Automatic Diabetic Foot Ulcer Recognition Using Multi-Level Thermographic Image Data	Ikramullah Khosa, Awais Raza, Mohd Anjum, Waseem Ahmad, Sana Shahab	2023	Diagnostics

24	Multi-stream Deep Convolution Neural Network with Ensemble Learning for Facial Micro-expression Recognition	Perveen, G., Ali, S. F., Ahmad, J., Shahab, S., Adnan, M., Anjum, M., & Khosa I	2023	IEEE Access
25	A novel renewable powered stand-alone electric vehicle parking-lot model	M. Jawad, H. Asghar, Jehangir Arshad, A. Javed, M. B. Qureshi, S. M. Ali, N. Shabbir and A. Rassolkin	2023	Sustainable Energy, Grids, and Networks
26	Health Monitoring and Posture Detection Multi-mode Electric wheelchair using Machine Learning Techniques	Jehangir Arshad, M. A. AShraf, H. M. Asim, N. Rasool, M. H. Jaffery, S. I. Bhatti	2023	Electronics
27	Deployment of an intelligent and secure cattle health monitoring system	Jehangir Arshad, T. A. Siddiqui, M. I. Sheikh, M. S. Waseem and A. Nawaz, A. Rehman, and E. T. Eldin	2023	Egyptian Informatics Journal
28	Swarm intelligence-based packet scheduling for future intelligent networks	Arif Husen, Muhammad Hasanain Chaudary, Farooq Ahmad, Muhammad Farooq-i-Azam, Chan Hwang See, Arfan Ghani	2023	PeerJ Computer Science
29	Stress monitoring using machine learning, IoT and wearable sensors	Abdullah A. Al-Atawi, Saleh Alyahyan, Mohammed Naif Alatawi, Tariq Sadad, Tareq Manzoor, Muhammad Farooq-i-Azam and Zeashan Hameed Khan	2023	Sensors
30	Dynamic Chiral Metasurfaces for Broadband Phase-Gradient Holographic Displays	Taimoor Naeem, Joohoon Kim, Hafiz Saad Khaliq, Junhwa Seong, Muhammad Tariq Saeed Chani, Tauseef Tauqeer, Muhammad Qasim Mehmood, Yehia Massoud, Junsuk Rho	2023	Advanced Optical Materials
31	Model Reduction of Unstable Discrete Time Generalized Second Orderly-Form Systems with Structure Preservation	Shafiq Haider, Sadaqat Ali, Masood Ahmad, Khurram Saleem, Rosmiwati Mohd. Mokhtar	2023	Technical Journal, University of Engineering and Technology (UET) Taxila, Pakistan
32	Adaptive Threshold-based Fault Detection for Systems Exposed to Model Uncertainty and Deterministic Disturbance	Masood Ahmad and Rosmiwati Mohd-Mokhtar	2023	Pertanika Journal of Science & Technology
33	LoRa and Rotating Polarization Wave: Physical Layer Principles and Performance Evaluation	Zaid Ahmad, Shaiful J. Hashim, Guillaume Ferre', Fakhrul Z. Rokhani, S. A. R. Al-Haddad, Aduwati Sali	2023	IEEE Access
34	A Reviewing Approach to Analyze the Advancements of Error Detection and Correction Codes in Channel Coding With Emphasis on LPWAN and IoT Systems	Muhammad Moazzam Ali, Shaiful Jahari Hashim, Muhammad Akmal Choudhary, Guillaume Ferre', Fakhrul Zaman Rokhani, Zaid Ahmad	2023	IEEE Access
35	A New Output Integral Sliding Mode Fault-Tolerant Control and Fault estimation Scheme for Uncertain Systems	S. Ijaz, M. Galea, M. T. Hamayun, H. Ijaz and U. Javaid	2023	IEEE Transactions on Automation Science and Engineering