University of Central Punjab, Lahore

Faculty of Engineering

▪ Journal Publications

Sr.	Journal View	HEC Cat.	Impact Factor	Year
1	A. Sharma, S. Chaudhary, J. Malhotra, **M. Saadi**, S. A. Otaibi, J. Nebhen, L. Wuttisittikulkij A cost-effective photonic radar under adverse weather conditions for autonomous vehicles by incorporating frequency modulated direct detection scheme Frontiers in Physics, HEC Category: W , IF: 3.560, publisher: Frontiers Media	W	3.560	2021
2	A. Mehmood, H. A. Sher, **A. F. Murtaza**, K. Al-Haddad A diode based fault detection, classification and localization method for Photovoltaic array IEEE Transactions on Instrumentation and Measurement, vol: 70, HEC Category: W, IF: 3.658, publisher: IEEE	W	3.658	2021
3	M. Adeel, A. K. Hassan, H. A. Sher, **A. F. Murtaza,** A grade point average assessment of analytical and numerical methods for parameter extraction of a practical PV device Renewable and Sustainable Energy Reviews, vol: 142, HEC Category: W , IF: 12.110, publisher: Elsevier	W	12.110	2021
4	**A. F. Murtaza**, H. A. Sher, F. Spertino , A. Ciocia, A. M. Noman, A. A. Al-Shamma'a, A. Alkuhayli, A novel MPPT technique based on mutual coordination between two PV modules/arrays Energies, vol: 14, issue: 21, HEC Category: W , IF: 3.007, publisher: MDPI	W	3.007	2021
5	**M. M. Gulzar**, **D. Sibtain**, **A. F. Murtaza**, S. Murawwat , **M. Saadi**, A. Jameel Adaptive fuzzy based optimized proportional-integral controller to mitigate the frequency oscillation of multi-area photovoltaic thermal system International Transactions on Electrical Energy Systems, vol: 31, issue: 1, HEC Category: W , IF: 1.692, publisher: Wiley	W	1.692	2021
6	R. V. Mendonça, A. A. M. Teodoro, R. L. Rosa, **M. Saadi**, D. Carrillo, P. H. J. Nardelli, D. Z. Rodriguez An intrusion detection system based on fast hierarchical deep convolutional neural network IEEE Access, vol: 9, HEC Category: W , IF: 3.745, publisher: IEEE	W	3.745	2021
7	M. M. AlDurgam, A. AlZahrani, **A. Nasir,** An MDP model for integrated operational decision making under uncertainty in a gas and oil separation plant IEEE Access, HEC Category: W , IF: 3.367, publisher: IEEE	W	3.367	2021

8	S. Chaudhary, L. Wuttisittikulkij, **M. Saadi**, A. Sharm, Sattam A. Otaibi, D. Z. Rodríguez, V. Sharma, J. Nebhen, S. Kumar, G. Phanomchoeng Coherent detection-based photonic radar for autonomous vehicles under diverse weather conditions PLoS ONE, HEC Category: W , IF: 3.240, publisher: PLOS	W	3.240	2021
9	**S. Bobi**, **M. Kashif**, Y. Laoonual Combustion and emission control strategies for partially-premixed charge compression ignition engines: A review Fuel, vol: 310(A), issue: 15, HEC Category: W , IF: 6.609, publisher: Elsevier	W	6.609	2021
10	**A. Ahmad**, S. A. R. Kashif, **A. Nasir**, A. Rasool, S. Liaquat, S. Padmanaban, L. Mihet-Popa Controller parameters optimization for multi-terminal dc power system using ant colony optimization IEEE Access, vol: 9, pages: 59910-59919, HEC Category: W , IF: 3.745, publisher: IEEE	W	3.745	2021
11	A. Khan, **H. Ahmad**, S. M. Ahsan, **M. M. Gulzar**, S. Murawwat Coordinated LVRT support for a PMSG-based wind energy conversion system integrated into a weak AC-Grid Energies, vol: 14, issue: 20, pages: 6588, HEC Category: W, IF: 3.004, publisher: MDPI	W	3.004	2021
12	A. Mehmood, H. A. Sher, **A. F. Murtaza**, K. Al-Haddad Fault detection, classification and localization algorithm for Photovoltaic array IEEE Transactions on Energy Conversion, HEC Category: W, IF: 4.501, publisher: IEEE	W	4.501	2021
13	S. Chaudhary, L. Wuttisittikulkij, J. Nebhen, X. Tang, **M. Saadi**, S. A. Otaibi, A. Althobaiti, A. Sharma, S. Choudhary Hybrid MDM-PDM based Ro-FSO System for broadband services by incorporating donut modes under diverse weather conditions Frontiers in Physics, HEC Category: W , IF: 3.560, publisher: Frontiers Media	W	3.560	2021
14	A. Parnianifard, **M. Saadi**, M. Pengnoo, M. A. Imran, S. Al Otaibi, P. Sasithong, P. Vanichchanunt, T. Polysuwan, L. Wuttisittikulkij Hybrid metamodeling/metaheuristic assisted multi-transmitters placement planning Computers, Materials and Continua, vol: 68, issue: 1, pages: 569-587, HEC Category: W , IF: 4.890, publisher: Tech Science	W	4.890	2021
15	**A. F. Murtaza**, H. A Sher , F. Spertino , K. Al-Haddad Module level electronic circuit based PV array for identification and reconfiguration of bypass modules IEEE Transactions on Energy Conversion, vol: 36, issue: 1, HEC Category: W , IF: 4.501, publisher: IEEE	W	4.501	2021
16	**D. Sibtain**, **A. F. Murtaza**, N. Ahmed, H. Sher, **M. M. Gulzar,** Multi control adaptive fractional order PID control approach for PV/Wind connected grid system International Transactions on Electrical Energy Systems, vol: 31, issue: 4, HEC Category: W , IF: 1.692, publisher: Wiley	W	1.692	2021
17	A. Nadeem, H. A. Sher, **A. F. Murtaza**, N. Ahmed Online current-sensorless estimator for PV open circuit voltage and short circuit current Solar Energy, vol: 213, HEC Category: W , IF: 4.608	W	4.608	2021

18	S. T. Vieira, R. L. Rosa, D. Z. Rodríguez, M. A. Ramírez, **M. Saadi**, L. Wuttisittikulkij Q-meter: Quality monitoring system for telecommunication services based on sentiment analysis using deep learning Sensors, vol: 21, issue: 5, HEC Category: W, IF: 3.275, publisher: MDPI	W	3.275	2021
19	M. Hassan , S. H. A. Rizvi, N. Abbas , U. Sajjad , **M. R. Shad**, M. A. Badshah, A. I. Malik , Recent developments in coatings for orthopedic metallic implants , Coatings , vol: 11 , issue: 7, HEC Category:W , IF: 2.436 , 2021	W	2.436	2021
20	**A. Nasir**, **I. Rasool**, **D. Sibtain**, **R. Kamran,** Adaptive fractional order PID controller based MPPT for PV connected grid system under changing weather conditions Journal of Electrical Engineering and Technology, vol: 16, pages: 2599-2610, HEC Category: X, IF: 1.069, publisher: Springer	X	1.069	2021
21	A. A. M. Teodoro, D. H. Silva, **M. Saadi**, O. D. Okey, R. L. Rosa, S. Al Otaibi, D. Z. Rodriguez An analysis of image features extracted by CNNs to design classification models for COVID-19 and Non-COVID-19 Journal of Signal Processing Systems, HEC Category: X , IF: 1.348, publisher: Springer, Nature	X	1.348	2021
22	M. Saifullah, S. Liu, M.Adnan, M. Zaman, S. Muhammad, **M. Babur**, Y. Zhu, K. Wu Assessment of spatial and temporal pattern of hydrological droughts in the upper indus basin, Pakistan Polish Journal of Environmental Studies, vol: 30, issue: 5 , pages: 1-13, HEC Category: X , IF: 1.699, publisher: Polish Journal of Environmental Studies	X	1.699	2021
23	**R. Gillani**, **A. Nasir,** Computational complexity reduction algorithms for Markov decision process based vertical handoff in mobile networks International Journal of Communication Systems, vol: 34, issue: 15, HEC Category: X , IF: 2.047, publisher: Wiley Online Library	X	2.047	2021
24	**U. Rafiq**, **A. F. Murtaza**, H. A. Sher, D. Gandini Design and analysis of a novel high-gain dc-dc boost converter with low component count Electronics, vol: 10, issue: 15, HEC Category: X, IF: 2.397, publisher: MDPI	X	2.397	2021
25	M. Masood, G. Nabi, **M. Babur**, A. H. Azhar, M. K. Ullah Disintegration of uncertainties associated with real-time multi-satellite precipitation products in diverse topographic and climatic area in Pakistan Journal of Mountain Science , vol: 18, pages: 716–734, HEC Category: X , IF: 1.550, publisher: Springer	X	1.550	2021
26	D. A. Ribeiro, J. C. Silva, R. L. Rosa, **M. Saadi**, S. Mumtaz, L. Wuttisittikulkij, D. Z. Rodriguez, S. A. Otaibi Light field image quality enhancement by a lightweight deformable deep learning framework for intelligent transportation systems Electronics Journal, vol: 10, issue: 10, HEC Category: X, IF: 2.397, publisher: MDPI	X	2.397	2021
27	S. Hanif, **M. A. Tahir,** K. Rashid, M. U. Rehman, N. Saleem, A. Aslam, & G. Naeem, Physico-mechanical performance of lightweight geopolymer foam aggregates developed by	X	-	2021

	geopolymerization through microwave-oven irradiations, Journal of King Saud University-Engineering Sciences, HEC Category: X, IF: 0.000			
28	**B. Iqbal**, **A. Nasir**, **A. F. Murtaza,** Stochastic maximum power point tracking of photovoltaic energy system under partial shading conditions Protection and Control of Modern Power Systems, vol: 30, issue: 6, pages: 1-13, HEC Category: X , IF: 0.000, publisher: Springer	X	-	2021
29	S. Hamid, **A. Nasir**, Y. Saleem Reinforcement learning based hierarchical multi-agent robotic search team in uncertain environment Mehran University Research Journal Of Engineering & Technology, vol: 40, issue: 3, pages: 645-662, HEC Category: Y , IF: 0.000, publisher: Mehran University	Y	-	2021
30	**Z. Aftab**, **F. Shafi**, **R. Shad**, **R. I. U. Haq**, K. Saeed , Systematic method for selection of motor-reducer units to power a lower-body robotic exoskeleton , Journal of Applied Science and Engineering , vol: 24 , issue: 4 , pages: 457-465, HEC Category:Y , IF: 0.000 , 2021	Y	-	2021
31	H. Syed , **G. Ahmed** , Effect of smart structures on aerodynamic performance of horizontal axis wind turbine , International Journal of Engineering Applied Sciences and Technology , vol: 5 , issue: 11 , pages: 62-71, publisher: IJEAST , 2021	-	-	2021
32	**A. Nasir**, **M. Saadi**, **R. Gillani**, **F. Mustafa,** Optimal assignment of customer-desired items to the fetching robots in superstores, Engineering Journal, vol: 25, issue: 11, pages: 1-11, publisher: Chulalongkorn University	-	-	2021

Author* means author exhibits dual affiliations, in which UCP is declared as primary institute.
Author** means author exhibits dual affiliations, in which UCP is declared as secondary institute.
Journal Name***: Impact factor journal Not found in HEC database.

▪ Conference & Miscellaneous Publications

Sr.	Conference View	Year
1	**S. Zeeshan,** Design and modelling of a domestic solar geyser integrated with Paraffin-Wax phase change material Proc. of the International Conference on Energy Water and Environment	2021
2	**M. M. Gulzar**, **M. Munawar**, **J. Khalil**, **D. Sibtain**, **A. Ahmed,** "∞-Boids Consensus Algorithm using Adaptive Flocking Model Proc. of the IEEE International Conference of Computing and Information Sciences (ICCIS), publisher: IEEE	2021
3	**S. Zeeshan**, T. Aized Design, development and experimentation of fruit harvesting robot Keynote Speaking in the International Conference on Interdisciplinary Applications of AI (ICIDAAI)	2021
4	U. Rehman, **A. Jameel**, A. Khan, **M. M. Gulzar**, **S. Murawwat,** Load frequency management for a two-area system (Thermal-PV & Hydel-PV) by swarm optimization based intelligent algorithms Proc. of the IEEE International Conference on Emerging Power Technologies (ICEPT) , pages: 1-6, publisher: IEEE	2021
5	**F. Toosy**, **M. S. Ehsan**, J. Reiss Subjective assessment of multichannel audio on a tablet computer Proc. of the 151st Convention of the Audio Engineering Society	2021
6	**F. Shafi , Z. Aftab, M. A. Hanif, Z. Ali** , A lower-body exoskeleton platform with remote actuation , Proc. of the 6th IEEE International Conference on Advanced Robotics and Mechatronics (ICARM) , 2021	2021
7	**Z. Aftab, N. Gillani** , Accuracy of leg kinematics in estimating key gait events for amputees , Proc. of the ISPO 18th World Congress , 2021	2021
8	**Z. Aftab ,** Estimating key gait events using leg kinematics for amputees: Assessment of accuracy against force plate data , Proc. of the Virtual ISPRM 2021 Congress , 2021	2021