



University of Central Punjab, Lahore

Faculty of Engineering

▪ Journal Publications

Sr.	Journal View	HEC Cat.	Impact Factor	Year
1	A. Nadeem, H. A. Sher, A. F. Murtaza , An online fractional open circuit voltage maximum output power algorithm for photovoltaic modules , IET Renewable Power Generation, vol: 14, issue: 2, HEC Category: W, IF: 3.605, publisher: IET	W	3.605	2020
2	F. U. Khan, A. F. Murtaza , H. A. Sher, K. Al-Haddad, F. Mustafa , Cabling constraints in PV array architecture: Design, mathematical model and cost analysis , IEEE Access, vol: 8, HEC Category: W, IF: 3.745, publisher: IEEE	W	3.745	2020
3	F. Toosy, M. S. Ehsan , Statistical inference of user experience of multichannel audio on mobile phones , CMC-Computers, Materials & Continua, vol: 65, issue: 2, pages: 1253-1270, HEC Category: W, IF: 4.890, publisher: Tech Science	W	4.890	2020
4	A. Hussain, H. A. Sher, A. F. Murtaza , A. Javedi, K. Al-Haddad, Transformerless three phase variable output voltage DC/AC standalone power converter using modified restrictive control set model predictive control , IEEE Journal of Emerging and Selected Topics in Power Electronics, vol: 8, issue: 4, HEC Category: W, IF: 4.728, publisher: IEEE	W	4.728	2020
5	A. Nasir, A. Khursheed, K. Ali, F. Mustafa , A Markov decision process model for optimal trade of options using statistical data , Computational Economics, HEC Category: W, IF: 1.317, publisher: Springer	W	1.317	2020
6	M. Alvi, K. M. Abualnaja, W. T. Toor, M. Saadi , Performance analysis of access class barring for next generation IoT devices , Alexandria Engineering Journal, HEC Category: W, IF: 2.460, publisher: Elsevier	W	2.460	2020
7	I. Manzoor, S. Murawwat, M. M. Gulzar , A. Jameel, M. Saadi , Secure indoor traffic modeling in long-term evolution femtocell networks using efficient Markov decision process , Transactions on Emerging Telecommunications Technologies, HEC Category: W, IF: 1.594, publisher: Wiley	W	1.594	2020
8	A. F. Murtaza, M. Bilal, R. Ahmad , H. A. Sher, A	W	4.728	2020

	circuit analysis based fault finding algorithm for photovoltaic array under LL/LG faults , IEEE Journal of Emerging and Selected Topics in Power Electronics, vol: 8, issue: 3, pages: 3067-3076, HEC Category: W, IF: 4.728, publisher: IEEE			
9	A. Hussain , H. A. Sher, A. F. Murtaza , K. Al-Haddad, A novel sensor-less current technique for photovoltaic system using DC transformer model based model predictive control , International Journal of Electrical Power & Energy Systems, vol: 122, HEC Category: W, IF: 3.588, publisher: Elsevier	W	3.588	2020
10	M. Xie, M. M. Gulzar , H. Tehreem , M. Y. Javed, S. T. H. Rizvi, Automatic voltage regulation of grid connected Photovoltaic system using Lyapunov based sliding mode controller: A Finite-Time Approach , International Journal of Control, Automation and Systems, vol: 18, issue: 6, pages: 1550-1560, HEC Category: W, IF: 2.181, publisher: Springer	W	2.181	2020
11	S. Nawaz, M. Kashif , N. Abbas, M. Farooq, M. Farhan, M. Amjad, F. Noor, R. A. Naqvi, Effect of defocused plane on entrance and exit hole geometry of high grade steel 18CrNi8 during percussion drilling by Nd:YAG millisecond laser system , Materials Research Express, vol: 7, issue: 1, HEC Category: W, IF: 1.449, publisher: IOP Publishing	W	1.449	2020
12	S. Shrestha, H. Sattar, M. S. Khattak, G. Wang, M. Babur , Evaluation of adaptation options for reducing soil erosion due to climate change in the Swat River Basin of Pakistan , Ecological Engineering, vol: 158, issue: 1 December 2020, pages: 106017, HEC Category: W, IF: 3.512, publisher: Elsevier	W	3.512	2020
13	H. Qaiser, I. Ahmad , M. Kashif , Fuzzy, synergetic and non-linear state feedback control of chemotherapy drug for a cancerous tumor , Biomedical Signal Processing and Control, vol: 62, HEC Category: W, IF: 3.137, publisher: Elsevier	W	3.137	2020
14	M. Babur* , S. Shrestha, B. Bhatta, A. Datta, H. Ullah, Integrated assessment of extreme climate and landuse change impact on sediment yield in a mountainous transboundary watershed of India and Pakistan , Journal of Mountain Science, vol: 17, pages: 624-640 , HEC Category: W, IF: 1.550, publisher: Springer	W	1.550	2020
15	M. Saadi , M. T. Noor, W. T. Toor, S. Mumtaz, L. Wuttisittikulkije, IoT enabled quality of experience measurement for next generation networks in smart cities , Sustainable Cities and Society, vol: 60, HEC Category: W, IF: 5.268, publisher: Elsevier	W	5.268	2020
16	A. Nasir , E. M. Atkins, I. V. Kolmanovsky, Robust Science-Optimal spacecraft control for circular orbit	W	7.351	2020

	missions , IEEE Transactions on Systems, Man, and Cybernetics: Systems, vol: 50, issue: 3, pages: 923-934, HEC Category: W, IF: 7.351, publisher: IEEE			
17	Y. Liu, T. Tafsirojjaman, A. U. R. Dogar , A. Hückler, Shrinkage behavior enhancement of infra-lightweight concrete through FRP grid reinforcement and development of their shrinkage prediction models , Construction and Building Materials, vol: 258, HEC Category: W, IF: 4.419, publisher: Elsevier	W	4.419	2020
18	M. W. Trinugroho, B. Bhatta, M. Babur** , The seawater intrusion under dam failure in the Cimanuk River Estuary, Indonesia , Regional Studies in Marine Science , vol: 36, HEC Category: W, IF: 1.462, publisher: Elsevier	W	1.462	2020
19	M. Kashif , M. B. Awan , S. Nawaz, M. Amjad, B. Talib, M. Farooq, A. S. Nizami, M. Rehan, Untapped renewable energy potential of crop residues in Pakistan: Challenges and future directions , Journal of Environmental Management, vol: 256, issue: 2020, HEC Category: W, IF: 4.865, publisher: Elsevier	W	4.865	2020
20	Y. Liu, T. Tafsirojjaman, A. U. R. Dogar , A. Hückler, B behaviour improvement between infra-lightweight and high strength concretes using FRP grid reinforcements and development of bond strength prediction models , Construction and Building Materials, HEC Category: W, IF: 4.419, publisher: Elsevier	W	4.419	2020
21	H. Tansar, M. Babur , S. L. Karnchanapaiboon, Flood inundation modeling and hazard assessment in Lower Ping River Basin using Mike flood , Arabian Journal of Geosciences, vol: 13, HEC Category: X, IF: 1.327, publisher: Springer	X	1.327	2020
22	J. Mumtaz , I. Rashid, J. Israr, Laboratory modelling of strength and deformation characteristics of a high swelling soil treated with industrial wastes , Arabian Journal of Geosciences, vol: 13, issue: 16, pages: 12, HEC Category: X, IF: 1.327, publisher: Springer	X	1.327	2020
23	F. U. Khan , M. M. Gulzar , D. Sibtain , H. M. Usman , A. Hayat , Variable step size fractional incremental conductance for MPPT under changing atmospheric conditions , International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, HEC Category: X, IF: 0.833, publisher: Wiley	X	0.833	2020
24	A. Haroon , I. Shafqat , H. R. Baig , A. Nasir , A. Ashraf , Modelling, control and placement of FACTS devices: A review , Mehran University Research Journal of Engineering & Technology, vol: 39, issue: 4, pages: 719-733, HEC Category: X, IF: 0.000, publisher: Mehran University	X	-	2020
25	S. Ahmad , M. M. Gulzar , U. T. Shami, S. Murawwat, A. Jameel, An improved PWM technique to reduce total harmonic distortion of multilevel inverters , Technical	X	-	2020

	Journal, vol: 25, issue: 1, pages: 8-14, HEC Category: X, IF: 0.000, publisher: Pakistan			
26	A. Nasir, H. R. Baig, M. Rafiq , Epidemics control model with consideration of seven-segment population model , SN Applied Sciences, vol: 2, issue: 10, pages: 1-9, HEC Category: Y, IF: 0.000, publisher: Springer	Y	-	2020
27	M. A. Shafique , E. Hato, Improving the accuracy of travel mode detection for low data collection frequencies , Pakistan Journal of Engineering and Applied Sciences, vol: 27, issue: 1, pages: 67-77, HEC Category: Y, IF: 0.000, publisher: UET Lahore	Y	-	2020
28	M. A. Shafique , E. Hato, A review of automatic travel mode detection methods , Mehran University Research Journal of Engineering and Technology, vol: 39, issue: 4, pages: 871-881, HEC Category: Y, IF: 0.000, publisher: Mehran University of Engineering and Technology	Y	-	2020
29	A. Nasir, H. R. Baig , Discrete time stochastic root-finding with forced stopping time , Proceedings of the Pakistan Academy of Sciences, vol: 57, issue: 2, pages: 83-90, HEC Category: Y, IF: 0.000, publisher: Pakistan Academy of Sciences	Y	-	2020
30	Z. Aftab, A. Z. Zaidi, F. Shafi , User satisfaction with conventional lower-limb orthotic devices: A cross-sectional survey in Pakistan , Disability, CBR and Inclusive development (Asia Pacific Disability Rehabilitation Journal), vol: 31, issue: 3, pages: 79-91, HEC Category: Y, IF: 0.000	Y	-	2020
31	M. H. Raza, A. Ahmad , SVPWM based BLDC motor drive using modified zeta converter for power factor correction , IEEE P New Horizons (Journal of the Institution of Electrical and Electronics Engineers Pakistan), vol: 102, issue: 2020, publisher: IEEE P	-	-	2020
32	A. Ahmed, F. H. Mangi, M. Kashif , F. A. Chachar, Z. Ullah, Parametric analysis of a serpentine flow pattern proton exchange membrane fuel cell for optimized performance , International Journal of Heat and Technology, vol: 38, issue:1, pages: 69-76, publisher: IETA	-	-	2020
33	M. Saadi , R. Manzoor, W. T. Toor, S. K. Wijayasekara, F. Masood, L. Wuttisittikulij, A comparative study of customer preferences for telecommunication technologies in Pakistan , Engineering Journal, vol: 24, issue: 3, publisher: Chulalongkorn University	-	-	2020
34	S. K. Wijayasekara, M. Saadi , W. Srichavengsup, R. Annur, S. Nakpeerayuth, H-Y. Hsieh, L. Wuttisittikulij, Frame size analysis of optimum dynamic tree in RFID systems , Engineering Journal, vol: 24, issue: 1	-	-	2020
35	G. Phanomchoeng, M. Saadi , P. Sasithong, J. Tangmongkhonsuk, S. K. Wijayasekara, L.	-	-	2020

	Wuttisittikulij, Hardware software co-design of a farming robot , Engineering Journal, vol: 24, issue: 1			
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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	P. Sasithong, Y. M. Myint, C. Kriangprapakit, C. Kertiopas, I. Ullah, L. Wuttisittikulij, T. Loetchaipitak, K. Chaipirawat, R. Chanchaoren, M. Saadi , 4G enabled phonebot with cloud based slam , Proc. of the International Conference on Electronics, Information, and Communication (ICEIC), publisher: IEEE	2020
2	S. K. Wijayasekara, M. Saadi , T. Sriprasert, P. Sasithong, K. Panyim, M. Pengnoo, L. Wuttisittikulij, An efficient aloha based collision resolution algorithm for RFID , Proc. of the International Conference on Electronics, Information, and Communication (ICEIC), publisher: IEEE	2020
3	N. Noomwongs, A. Bajpai, P. Phutthaburee, L.l Wongpiya, A. Skulthai, T. Z. B. Maung, Y. M. Myint, I. Ullah, L. Wuttisittikulij, M. Saadi , Design and testing of autonomous steering system implemented on a toyota ha: mo , Proc. of the International Conference on Electronics, Information, and Communication (ICEIC), publisher: IEEE	2020
4	M. M Gulzar, M. Munawar, Z. Dewan, M. Salman, M. Iqbal , Level control of coupled conical tank system using adaptive model predictive controller , Proc. of the IEEE International Conference on Smart Communities: Improving Quality of Life Using ICT, IoT and AI (HONET), publisher: IEEE	2020
5	M. Rafiq , A.Raza, I. Hareem, M. Usman, Numerical analysis of an avian influenza epidemic model , Proc. of the 17th International Bhurban Conference on Applied Sciences and Technology (IBCAST-2020) Jan 14-18, 2020.	2020