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Area of interest: Instrumentation, Smart Systems, Biomedical, Artificial Intelligence.

Educational Qualifications:

Ph. D. (Salford University, U.K), **M. Tech.** (Sunderland University, U.K), **B. Tech.** (HBTI, Kanpur).

Experience:

Assistant Professor, Electrical Engg Dept, ZHCET, AMU June 2016 - active
Lecturer, Prince Sattam bin Abdul Aziz University, Saudi Arabia, Feb 2009 – June 2016
Lecturer Ideal Institute of Technology. Ghaziabad, India Oct 2007 - Jan 2009

Projects:

Deanship for Research Salman bin Abdul-Aziz University Projects.

- [1]. Dr Mechmeche Chokri, Mohammad Sarfraz, Computer aided diagnosis for cardiovascular diseases, modeling using State flow application. (2016)
- [2]. Dr Aslam Amir Ahmed, Mohammad Sarfraz, Mode Choice Modelling Using Artificial Neural Networks and Fuzzy logic. (2014)
- [3]. Dr Ibrahim Mrabet, Mohammad Sarfraz, Study & Design of electronic ballast for discharge lamp based on high frequency resonant inverter and current feedback control. (2012)

Publications:

- [1]. McGarry, K., Sarfraz, M., & MacIntyre, J. (2007). Integrating gene expression data from microarrays using the self-organising map and the gene ontology. In *Pattern Recognition in Bioinformatics* (pp. 206–217). Springer.
- [2]. Sarfraz, M., & Mukhtar, S. (2008). Collision detection system using Radial basis function network (pp. 82–86). Presented at the National Conference on Engineering Technology for Sustainable development, Ghaziabad, India.
- [3]. Sarfraz, M., Li, F., & Javed, M. (2011). A comparative study of ICA algorithms for ECG signals processing. In *Proceedings of the International Conference on Advances in Computing and Artificial Intelligence* (pp. 135-138). ACM.
- [4]. Mrabet, B., & Sarfraz, M. (2012). Study and Design of electronic ballast for discharge lamp based on high frequency resonant inverter and current feedback control. In *Light Sources 2012* (pp. 165–166). Troy, New York, USA: FAST-LS Ltd. UK.
- [5]. Sarfraz, M., & Li, F. (2013). Independent component analysis for motion artifacts removal from electrocardiogram. *Global Perspectives on Artificial Intelligence*, 1(4), 49-55.
- [6]. Sarfraz, M., Li, F., & Javed, M. (2013). A Blind Source Separation Method to Eliminate Noise Artefacts in ECG Signals (Vol. I, pp. 112–119). Presented at the 2nd International Conference On Recent Trends In Computing, Ghaziabad, India.
- [7]. Sarfraz, M., Li, F., & Khan, A. A. (2014). The ICA Based Soft-Computing Algorithms for Signal Cleaning and Feature Selection in (for) Automated ECG Pattern Recognition. *International Journal of Emerging Technology and Advanced Engineering*, 4(9), 470–476. (ISSN 2250-2459).
- [8]. Sarfraz, M., Khan, A. A., & Li, F. F. (2014, November). Using independent component analysis to obtain feature space for reliable ECG Arrhythmia classification. In *Bioinformatics and Biomedicine (BIBM), 2014 IEEE International Conference on* (pp. 62-67). IEEE.
- [9]. Sarfraz, M., Li, F., & Khan, A. A. (June 2015). Independent Component Analysis Methods to Improve Electrocardiogram Patterns Recognition in the Presence of non-Trivial Artifacts. *Journal of Medical and Bioengineering* ISSN 2301-3796 Vol. 4 No.3, (pp. 221-226).
- [10]. Shamim, G., Khan, Y. U., Sarfraz, M., & Farooq, O. (2016, December). Epileptic seizure detection using heart rate variability. In *Signal Processing and Communication (ICSC), 2016 International Conference on* (pp. 250-254). IEEE.