

## 2015

- [1] A. Kumar, S. Anurag and G. K. Singh, "An Optimized Cosine-Modulated Nonuniform Filter Bank Design for Subband Coding of ECG signal", *Journal of King Saud University - Engineering Sciences (Elsevier)* Vol. 27, No. 2, pp. 158–169, 2015.
- [2] A. Kumar, R. Pooja and G.K. Singh, "Performance of different window functions for designing quadrature mirror filter bank using closed form method", *Int. J. Signal and Imaging Systems Engineering*, Vol. 8, No. 6, pp. 367-379, 2015.
- [3] V. Bajaj, and A. Kumar, Features based on intrinsic mode functions for classification of EMG signals, *International Journal of Biomedical Engineering and Technology*, Vol.18, No.2, pp.156 – 167, 2015.
- [4] Ansari, I. A., Singla, R., & Singh, M. (2015). SSVEP and ANN based optimal speller design for Brain Computer Interface. *Journal of Computational Science and Techniques*, 2(2), 338-349.
- [5] V. Bajaj and A. Kumar, Features based on intrinsic mode functions for classification of EMG signals, *International Journal of Biomedical Engineering and Technology*, Vol. 18, No. 2, pp. 156-167, 2015.
- [6] M. K. Ahirwal, A. Kumar, and G. K. Singh, "Sub-band adaptive filtering method for electroencephalography/event related potential signal using nature inspired optimization techniques", *IET Science, Measurement & Technology*, Vol. 9, No. 8, pp. 987-997, 2015
- [7] B. Kuldeep, A. Kumar and G. K. Singh, "Design of Two-Channel Filter Bank using Nature Inspired Optimization Based Fractional Derivative Constraints", *ISA Transactions (Elsevier)*, Vol. 54, pp.101–116, 2015. (Impact Factor: 3.394)
- [8] B. Kuldeep, A. Kumar and G. K. Singh, "Hybrid method for designing digital FIR filters based on fractional derivative constraints", *ISA Transactions*, Vol. 58, pp. 493-508, 2015. (Impact Factor: 3.394)
- [9] A. K. Bhandari, A. Kumar and G. K. Singh, "Modified Artificial Bee Colony based Computationally Efficient Multilevel Thresholding for Satellite Image Segmentation using Kapur's, Otsu and Tsallis Functions", *Expert Systems with Applications*, (Elsevier), Vo
- [10] A. K. Bhandari, A. Kumar and G. K. Singh, "Tsallis Entropy based Multilevel Thresholding for Colored Satellite Image Segmentation using Evolutionary Algorithms", *Expert Systems with Applications*, (Elsevier), Vol. 42, No. 22, pp. 8707–8730, 2015. (Impact F
- [11] B. Kuldeep, A. Kumar, and G. K. Singh, "Design of Multi-Channel Cosine Modulated Filter Bank Based on Fractional Derivative Constraints using Cuckoo Search Algorithm", *Circuits, Systems, and Signal Processing*, Vol. 34 No.10 pp. 3325-3351, 2015 (Impact Fac
- [12] A. K. Bhandari, A. Kumar and G. K. Singh, "Improved Feature Extraction Scheme for Satellite Images using NDVI and NDWI Technique based on DWT and SVD", *Arabian Journal of Geosciences*, (Springer), Vol. 8, pp. 6949–6966, 2015 (Impact Factor: 1.152).
- [13] A. Kumar, S. Suman, and G.K. Singh, "Design of Variable Bandwidth Linear Phase FIR Filter using Bernstein Multiwavelets", *International Journal of Electronics (Taylor Francis)*, Vol. 102, No. 4, pp. 635-650, 2015 (Impact Factor: 0.762)
- [14] A. K. Bhandari, A. Kumar and G. K. Singh, "Improved Knee Transfer Function and Gamma Correction Based Method for Contrast and Brightness Enhancement of Satellite Image", *AEU-International Journal of Electronics and Communications*, (Elsevier), Vol. 69, No.
- [15] A. Vishwakarma, A. Kumar, and G. K. Singh, "A Prototype Filter Design for Cosine Modulated Transmultiplexer using Weighted Constrained Least Squares Technique", *AEU-International Journal of Electronics and Communications*, Vol. 69, No. 6, pp. 915–922 (Impa
- [16] B. Kuldeep, A. Kumar and G. K. Singh, "Design of quadrature mirror filter bank using polyphase components based on optimal fractional derivative constraints", *AEU-International Journal of Electronics and Communications*, (Elsevier), Vol. 69, No. 9, pp. 125
- [17] V. Bajaj and A. Kumar, Features based on intrinsic mode functions for classification of EMG signals, *International Journal of Biomedical Engineering and Technology*, Vol. 18, No. 2, pp. 156-167, 2015.