

## AUTHOR'S LIST OF PUBLICATION (ON PHD WORK)

### A) Journal Publications

#### A.1) Published

1. **Singh, M.,** Verma, A. & Sharma, N. (2018). Multi-objective noise estimator for the application of de-noising and segmentation of MRI data. **Biomedical Signal Processing and Control**, Elsevier, 46, 249-259.
2. **Singh, M.,** Verma, A., & Sharma, N. (2018). Optimized multi-stable stochastic resonance for the enhancement of pituitary microadenoma in MRI. **IEEE Journal of Biomedical and Health Informatics**, 22(3), 862 – 873.
3. **Singh, M.,** Sharma, S., Verma, A., & Sharma, N. (2017). Enhancement and Intensity Inhomogeneity Correction of Diffusion-Weighted MR Images of Neonatal and Infantile Brain Using Dynamic Stochastic Resonance. **Journal of Medical and Biological Engineering**, Springer 37(4), 508-518.
4. **Singh, M.,** Verma, A. & Sharma, N., “An optimized cascaded stochastic resonance for the enhancement of brain MRI. **IRBM**, Elsevier. (DOI: [10.1016/j.irbm.2018.08.002](https://doi.org/10.1016/j.irbm.2018.08.002))
5. **Singh, M.,** Verma, A., & Sharma, N. (2017). Bat optimization based neuron model of stochastic resonance for the enhancement of MR images. **Biocybernetics and Biomedical Engineering**, Elsevier, 37(1), 124-134.
6. **Singh, M.,** Sharma, N., Verma, A., & Sharma, S. (2016). Dynamic Stochastic Resonance Based Diffusion-Weighted Magnetic Resonance Image Enhancement Using Multi-Objective Particle Swarm Optimization. **Journal of Medical and Biological Engineering**, Springer, 36(6), 891-900.

#### A2) Articles submitted/under review/ in revision

7. **Singh, M.,** Verma, A. & Sharma, N., Segmentation of MRI data using multi-objective antlion based improved Fuzzy c-means. Minor Revision: **Biocybernetics and Biomedical Engineering**, Elsevier.
8. **Singh, M.,** Verma, A. & Sharma, N., An enhanced fuzzy c-means based on multi-objective particle swarm optimization. Submitted to: **International Journal of biomedical engineering and technology**, Inderscience.

#### B.1) Publications at Conference

9. **Singh M.,** Bhattacharjee R., Verma A. & Sharma N. (2017). An improved Xie-Beni index for cluster validity measure, In **Image Information Processing International Conference on**, (pp. 95-99). IEEE. (*Best Paper Award*)
10. **Singh, M.,** Sharma, N., & Verma, A. (2017, February). Effect of image transformations on dynamic stochastic resonance based MR image enhancement. In **Electronics and Communication Systems (ICECS)**, 2017 4th International Conference on (pp. 1-6). IEEE.

