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Area of Specialization: Electrical Engineering

**Publications of Last Five Years:**

1. S. Sridhar, U. Ramachandraiah, G. Muthukumaran, E. Sathish, Hybrid brain-computer interface control system for quadriplegic patients, Journal of critical reviews, vol. 7(14), pp.975-982, 2020.
2. S. Sridhar , U. Ramachandraiah , G. Muthukumaran , E. Sathish, Detection of Eyeblink using Hybrid Brain-Computer Interface, Solid State Technology, vol. 63(1), pp.1-6, 2020.
3. E. Sathish, N.Sivakumaran, Sishaj P Simon, S.Raghavan, Genetic algorithm based feature selection for classification of focal and non-focal intracranial Electroencephalographic signals, Journal of scientific and industrial research - Accepted for publication. vol. 76, no. 5, pp.614-619, 2017.
4. E.Sathish, N.Sivakumaran, S.Sankaranarayanan, Grey wolf optimization based parameter selection for support vector machines, International journal for computation and mathematics in electrical and electronic engineering, vol. 35, no. 5, pp.1513 – 1523, 2016.
5. E.Sathish, N.Sivakumaran, K.Radhakrishnan, S.Raghavan, T.K.Radhakrishnan, Importance of classification algorithms in epileptic seizure detection, Journal of bioengineering & biomedical sciences – vol. 6, no. 3, 2016, pp. 1-2, 2016.
6. E.Sathish, N.Sivakumaran, V.Kirubakaran, T.K.Radhakrishnan, K.Radhakrishnan, Design of Metaheuristic Tuned Support Vector Machine for Classification of Electroencephalographic Signals, Swarm and evolutionary computation, Elsevier - Communicated.
7. E.Sathish, N.Sivakumaran, K.Radhakrishnan, Characterization of focal and non-focal epileptic seizure using optimized machine learning algorithms, International Journal of biomedical engineering and technology, Inderscience (SCI Indexed - Impact factor - Communicated.

8. Sridhar S, Ramachandraiah Uppu, Muthukumaran G, E.Sathish, Detection of Eye blink using Hybrid Brain-Computer Interface, International Journal of Engineering - Communicated.
9. Florence Gnana Poovathy John, Shubhashisa Sahoo, Sathish Eswaramoorthy, Muthukumaran Gopalan, Uppu Ramachandraiah "Modeling of a Suction Chamber based Wall Climbing Robot for Angular Stability", IEEE International Instrumentation and Measurement technology Conference, 25-28 May 2020
10. S.K.Indumathi, E. Sathish, U.Ramachandraiah, "Model Identification of conical tank system using data driven approach" Springer International Conference on Mechanical Engineering Design ,SSN College of Engineering, Chennai, 25-26 April 2019.
11. S.Sridhar, U.Ramachandraiah, E. Sathish and G. Muthukumaran, "Identification of Eye blink Artifacts using Wireless EEG headset for Brain Computer Interface System", IEEE International Conference on Sensors, New Delhi, 2018
12. C Sudalaimani, N Sivakumaran, Sasi Pilacheri Meethal, Elizabeth Thomas T, S. Rominus Valsalam and Sathish Eswaramoorthy, "Seizure Prediction using General Regression Neural Networks, Trends in industrial measurement and automation", pp 1-7, 2017
13. Rajendra Singh Takur, E.Sathish, N.Sivakumaran "Machine Learning Based Categorization of fruits for big basket grocery store", International Conference on Human Computer Interactions 2016 (IEEE), Chennai.
14. K.Elavarasi, P.Rajasekar and E.Sathish, "Realtime gas-solid flow measurement using image processing", International Conference on Human Computer Interactions 2016 (IEEE), Chennai.