

## LIST OF PUBLICATIONS

- [1] Barik, A., Deka, R., and Dutta, J.C. Carbon Nanotube Based Dual-Gated Junctionless Field Effect Transistor for Acetylcholine Detection. *IEEE Sensors Journal*, 16(2): 280-286, 2016.
- [2] Deka, R., and Dutta, J.C. Developemnt of NeuroAchFET circuit for patients having neurological disorder. *Current trends in Biotechnology and Pharmacy*, 11(2): 129-135, 2017.
- [3] Deka, R., and Dutta, J.C. Optimization Of Neuron Models Using Advanced Algorithms. *International Journal of Pharmaceutical Sciences Review and Research*, 42(1):63-67, 2017.
- [4] Deka, R., and Dutta, J.C. Parameter Extraction of Hodgkin-Huxley Type Circuit Model of Neuron using Advanced Algorithm. *International Journal of ChemTech Research*, 10(1):303-309, 2017.
- [5] Deka, R., and Dutta, J.C. Modelling of a circuit using ISFET (Ion Sensitive FET) for Obtaining Neuronal Signals. *Journal of Engineering Research*. (Accepted).
- [6] Dutta, J.C, and Deka, R, Modeling Neuron through the development of Acetylcholine sensitive field effect Transistor (AchFET): The NEUROAchFET. (*Communicated*)
- [7] Deka ,R., and Dutta, J.C. Modeling and simulation of a NEUROBIOFET for application in neurology. *IEEE International conference on Electronic Design, Computer Networks & Automated Verification (EDCAV'15)*, pages 100-104, Shillong, India,2015.
- [8] Deka, R., and Dutta, J.C. Parameter Extraction for Neuron Model Simulation of Action Potential in Earthworm giant nerve fiber. *IEEE International Conference on Computational Intelligence & Communication Technology (CICT'15)*, pages 732-736, Ghaziabad, India, 2015.
- [9] Deka, R., and Dutta, J.C. Parameter estimation of action potential in neuron using MATLAB GUI Interface. *Regional Celebration of Women in Computing, East and North-East, ACM -W* , IIT Guwahati, 2015(Poster Presentation).
- [10] Deka, R., and Dutta, J.C. Estimation of Parameters using Evolutionary Algorithm in Hodgkin-Huxley Model. *IEEE International conference on Advances in Electrical, Electronics, Information, Communication And Bioinformatics (AEEICB '16)*, pages

219-223, Chennai, India, 2016.

- [11] Deka, R., and Dutta, J.C. Parameter estimation of neuron models using different advanced optimization methods for application in biomedical field. *Lecture Notes in Electrical Engineering, Springer* (Accepted)