

Santhosh Kumar Veeramalla

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Biography

Santhosh Kumar Veeramalla received the B. Tech. degree in Electronics and Communication Engineering from the Jawaharlal Nehru Technological University, Hyderabad, India, in 2005 and the M.E. degree in Electronics and Communications from the University Visvesvaraya College of Engineering (UVCE), Bangalore, India in 2008. Currently, he submitted his Ph.D. thesis in the department of Electronics and Communication Engineering at the National Institute of Technology, Warangal, India. His research interests are in the area of biomedical signal processing and its implementation with MATLAB, Theoretical and Computational Neuroscience, EEG based Source localization and connectivity.

Selected Publications

Journal Publications:

1. Veeramalla, S.K. and Talari, V.H.R. (2020), Neural source localization using particle filter with optimal proportional set resampling. **ETRI Journal**. doi:10.4218/etrij.2019-0020
2. Veeramalla, S.K., Talari, V.K.H.R. Multiple dipole source localization of EEG measurements using particle filter with partial stratified resampling. **Biomedical Engineering Letters**, 10(2), 205–215 (2020). <https://doi.org/10.1007/s13534-020-00149-6>
3. Veeramalla, S.K., Talari, V.K.H.R. (2019), Estimation of neural sources from EEG measurements using sequential Monte Carlo method. **Ingénierie des Systèmes d'Information**, Vol. 24, No. 4, pp. 411-417. doi:10.18280/isi.240408
4. Santhosh Kumar Veeramalla, Hanumantha Rao T.V.K. (2019), Resampling schemes within a particle filter framework for brain source localization, **International Journal of Biomedical Engineering and Technology**, (In press)

Conference Publications:

5. V. S. Kumar and T. V. K. H. Rao, "Resampling schemes for Rao-Blackwellization Particle Filters," 2016 International Conference on Computing, Analytics and Security Trends (CAST), Pune, **IEEE**, 2016, pp. 377-382. doi: 10.1109/CAST.2016.7914998
6. Kumar V.S., Rao T.V.K.H. (2018), "Functional Brain Connectivity analysis using Coherent Measures," In EMBEC 2017, NBC 2017 Finland. IFMBE Proceedings, vol. 65. **Springer**, Singapore

Book Chapter:

7. Kumar V.S., Rao T.V.K.H. (2020), "Neural Source Connectivity Estimation Using Particle Filter And Granger Causality Methods," In **Handbook of Artificial Intelligence in Biomedical Engineering**, Apple academic press by CRC press, (In Production). www.appleacademicpress.com/handbook-of-artificial-intelligencein-biomedical-engineering-/9781771889209