

Name : **Dr. K. Kamalanand**
Qualification : Ph.D.
Department : Instrumentation Engineering
Institution : Madras Institute of Technology, Chennai - 600044
Designation : Assistant Professor
Area of Interest : Biomedical Engineering
E-mail Id : kamalanand@mitindia.edu
Phone-landline (intercom): 044-2251(6035)
Website : <https://sites.google.com/site/drkamalanand88/home>

List of publications (last five years):

1. Paramasivam, A., **Kamalanand, K.**, & Mannar Jawahar, P. (2017). Selection of Surface Electrodes for Electrogastrography and Analysis of Normal and Abnormal Electrogastrograms using Hjorth Information. *International Journal of Biomedical Engineering and Technology*, (Under Print).
2. Ambikapathy, B., **Kamalanand, K.**, Kirshnamurthy, K., & Venkatesan, R. (2018). Assessment of electromyograms using genetic algorithm and artificial neural networks. *Evolutionary Intelligence*, 1-11.
3. Bakiya, A., **Kamalanand, K.**, Rajinikanth, V., Nayak, R. S., & Kadry, S. (2018). Deep neural network assisted diagnosis of time-frequency transformed electromyograms. *Multimedia Tools and Applications*, 1-17. (Impact factor: 2.101)
4. Ambikapathy, B., & Krishnamurthy, K. **Kamalanand, K** (2018). Analysis of electromyograms recorded using invasive and noninvasive electrodes: a study based on entropy and Lyapunov exponents estimated using artificial neural networks. *Journal of Ambient Intelligence and Humanized Computing*, 1-9. (Impact factor: 1.910)
5. Rajinikanth, V., Raja, N. S. M., & **Kamalanand, K.** (2017). Firefly Algorithm Assisted Segmentation of Tumor from Brain MRI using Tsallis Function and Markov Random Field. *Journal of Control Engineering and Applied Informatics*, 19(3), 97-106. (Impact factor: 0.583)

6. Alagumariappan, P., Krishnamurthy, **Kamalanand, K**, K., Kandiah, S., & Ponnuswamy, M. J. (2017). Effect of electrode contact area on the information content of the recorded electrogastrograms: An analysis based on Rényi entropy and Teager-Kaiser Energy. *Polish Journal of Medical Physics and Engineering*, 23(2), 37-42. (Citescore: 0.38)
7. Kumar, V. S., Anantharaj, **Kamalanand, K**, U. J., Sakthioli, M., Vinnakota, R., & Krishnamurthy, K. (2016). Mathematical modelling of the effects of prebiotic concentration on lactobacillus casei growth. *International Journal of Infectious Diseases*, 45, 205. (Impact factor: 3.538)
8. **Kamalanand, K.**, & Mannar Jawahar, P. (2016). Comparison of particle swarm and bacterial foraging optimization algorithms for therapy planning in HIV/AIDS patients. *International Journal of Biomathematics*, 9(02), 1650024. (Impact factor: 0.894)
9. **Kamalanand, K.**, & Jawahar, P. M. (2015). Prediction of human immunodeficiency virus-1 viral load from CD4 cell count using artificial neural networks. *Journal of Medical Imaging and Health Informatics*, 5(3), 641-646. (Impact factor: 0.499)
10. **Kamalanand, K.**, & Ramakrishnan, S. (2015). Effect of gadolinium concentration on segmentation of vasculature in cardiopulmonary magnetic resonance angiograms. *Journal of Medical Imaging and Health Informatics*, 5(1), 147-151. (Impact factor: 0.499)
11. Manickavasagam, K., Sutha, S., & **Kamalanand, K.** (2014). Development of systems for classification of different plasmodium species in thin blood smear microscopic images. *Journal of Advanced Microscopy Research*, 9(2), 86-92.
12. Arunachalam, K., Jacob, L. V., & **Kamalanand, K.** (2014). Design and analysis of finite element based sensors for diagnosis of liver disorders using biocompatible metals. *Technology and Health Care*, 22(6), 867-875. (Impact factor: 1.618)
13. Vaishnavi, G. K., Jeevananthan, K., Begum, S. R., & **Kamalanand, K.** (2014). Geometrical analysis of schistosome egg images using distance regularized level set method for automated species identification. *Journal of Bioinformatics and Intelligent Control*, 3(2), 147-152.
14. **Kamalanand, K.**, & Jawahar, P. M. (2014). A graphical user interface for resource limited estimation of HIV-1 viral load using swarm intelligence techniques. *Journal of Bioinformatics and Intelligent Control*, 3(2), 110-116.
15. **Kamalanand, K.**, & Jawahar, P. M. (2014). Hybrid BFPSO algorithm based estimation of optimal drug dosage for antiretroviral therapy in HIV-1 infected patients. *BMC infectious diseases*, 14(S3), E14. (Impact factor: 2.565)

16. Manickavasagam, K., Sutha, S., & **Kamalanand, K.** (2014). An automated system based on 2 d empirical mode decomposition and k-means clustering for classification of Plasmodium species in thin blood smear images. *BMC infectious diseases*, 14(3), P13. (Impact factor: 2.565)
17. Krishnamurthy, K., **Kamalanand, K** & Jacob, L. (2014). Finite element based design of a capacitive sensor for diagnosis of cirrhotic and malignant liver. *Journal of Clinical and Experimental Hepatology*, 4, S65. (Cite score: 1.83)