Dr. K. PALANI THANARAJ M.E., Ph.D.

Assistant Professor, Department of Electronics & Instrumentation Engg.

St. Joseph's College of Engineering, CH-119

List of Publications

Book Chapters

V. Rajinikanth, S. Arunmozhi, N. Sri Madhava Raja, B. Parvatha Varthini**, K. Palani Thanaraj**: *Examination of Plant/Weed Image Dataset Using a Hybrid Image Processing Tool*. Applications of Image Processing and Soft Computing Systems in Agriculture, 01/2019: pages 159-183; , ISBN: 9781522580287, DOI:10.4018/978-1-5225-8027-0.ch007

V. Rajinikanth, **K. Palani Thanaraj**, Suresh Chandra Satapathy, Steven Lawrence Fernandes, Nilanjan Dey: *Shannon's Entropy and Watershed Algorithm Based Technique to Inspect Ischemic Stroke Wound: Proceedings of the Second International Conference on SCI 2018, Volume 2*. Smart Intelligent Computing and Applications, 01/2019: pages 23-31; , ISBN: 978-981-13-1926-6, DOI:10.1007/978-981-13-1927-3_3

Journal Publications

Thanaraj Palani, Joseph Raj A, Balasubramanian P, Chen Y. Schizophrenia detection using Multivariate Empirical Mode Decomposition and entropy measures from multichannel EEG signal, Biocybernetics and Biomedical Engineering, 2020 vol: 40 (3) pp: 1124-1139

Thirunavukkarasu, U., Umapathy, S., **Thanaraj, Palani.** and Janardanan, K., 2020. Human tongue thermography could be a prognostic tool for prescreening the type II diabetes mellitus. Evidence-Based Complementary and Alternative Medicine, 2020.

Rajinikanth, V., Joseph Raj, A.N., **Thanaraj, K.P.** and Naik, G.R., 2020. A Customized VGG19 Network with Concatenation of Deep and Handcrafted Features for Brain Tumor Detection. Applied Sciences, 10(10), p.3429.

Thanaraj, Palani, Balasubramanian, P. and Umapathy, S., 2020. Automated heart sound classification system from unsegmented phonocardiogram (PCG) using deep neural network. Physical and Engineering Sciences in Medicine, pp.1-11.

Lakshmi, D., **Thanaraj, K.P.** and Arunmozhi, M., 2020. Convolutional neural network in the detection of lung carcinoma using transfer learning approach. International Journal of Imaging Systems and Technology, 30(2), pp.445-454.

V. Vijayan, A. Srinivasan, **K.P. Thanaraj**: *Design of PID controller for IPDT system based on double first order plus time delay model*. International Journal of Pure and Applied Mathematics 01/2018; 119(15):1563-1569.

Palani Thanaraj, B. Parvathavarthini: *Multichannel interictal spike activity detection using time–frequency entropy measure*. Australasian physical & engineering sciences in medicine / supported by the Australasian College of Physical Scientists in Medicine and the Australasian Association of Physical Sciences in Medicine 04/2017; 40(2):1-13., DOI:10.1007/s13246-017-0550-6

Palani Thanaraj Krishnan, Parvathavarthini Balasubramanian, Chitra Krishnan: *Evaluation of joint analysis of multiple interictal events for spike extraction and source imaging*. International Journal of Biomedical Engineering and Technology 01/2017; 25(1):77., DOI:10.1504/IJBET.2017.086553

Palani Thanaraj Krishnan, Chitra Krishnan, Parvathavarthini Balasubramanian: *Evaluation of joint analysis of multiple interictal events for spike extraction and source imaging*. International Journal of Biomedical Engineering and Technology 01/2017; 25(1):77., DOI:10.1504/IJBET.2017.10007486

Palani Thanaraj, Mable Roshini, Parvathavarthini Balasubramanian: *Integration of multivariate empirical mode decomposition and independent component analysis for fetal ECG separation from abdominal signals*. Technology and health care: official journal of the European Society for Engineering and Medicine 06/2016; 24(6)., DOI:10.3233/THC-161224

Palani Thanaraj: *Extraction of Fetal QRS Complex from Abdominal ECG Signals*. International Journal of Emerging Trends & Technology in Computer Science 04/2016; 34(1):29-33., DOI:10.14445/22312803/IJCTT-V34P105

B. Abhinaya, D. Charanya, **K. Palani Thanaraj**: *Feature Extraction and Selection of a Combination of Entropy Features for Real-time Epilepsy Detection*. International Journal of Advanced Trends in Computer Science and Engineering 04/2016; 5(4):16073-16078., DOI:10.18535/ijecs/v5i4.03

Palani Thanaraj, Parvathavarthini, Chitra: *Segmentation of Brain Regions by Integrating Meta-Heuristic Multilevel Threshold with Markov Random Field*. Current Medical Imaging Reviews 01/2016; 12(1)., DOI:10.2174/1573394711666150827203434

M. Ashwin Kumaar, **K. Palani Thanaraj**: *Feature Extraction of Arterio-Venous Malformation Images using Grey Level Co-Occurrence Matrix*. Indian Journal of Science and Technology 12/2015; 8(35):1-5., DOI:10.17485/ijst/2015/v8i35/83387

S. Senthil Kumar, **K. Palani Thanaraj**: *Robust image steganography by embedding selective intrinsic mode functions with discrete wavelet transform*.

Palani Thanaraj, K Chitra: *Multichannel Feature Extraction and Classification of Epileptic States Using Higher Order Statistics and Complexity Measures*. International Journal of Engineering and Technology 03/2014; 6(1):102-109.

Conference Proceedings

V. Rajinikanth, **K. Palani Thanaraj**, Suresh Chandra Satapathy, Steven Lawrence Fernandes, Nilanjan Dey: *Shannon's Entropy and Watershed Algorithm Based Technique to Inspect Ischemic Stroke Wound*. Smart Intelligent Computing and Applications Proceedings of the Second International Conference on SCI 2018, Volume 2, Vijayawada; 11/2018

G. Hari Hara Sudhan, R. Ganesh Aravind, **K. Palani Thanaraj**: *Multispectral Analysis of Satellite Images Using Heuristic Algorithm*. 2018 International Conference on Communication and Signal Processing (ICCSP); 04/2018, DOI:10.1109/ICCSP.2018.8524429

Johnson.K Shijo, Thanaraj.**K Palani**, S.Senthil Kumar: *Design of Controllers for T1DM blood Glucose Insulin Dynamics based on Constrained Firefly Algorithm*. 2018 4th International Conference on Electrical Energy Systems (ICEES); 02/2018, DOI:10.1109/ICEES.2018.8443246

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Palani Thanaraj Krishnan, Parvathavarthini Balasubramanian: *Automated EEG seizure detection based on S-transform*. 2016 IEEE International Conference on Computational Intelligence and Computing Research (ICCIC); 12/2016, DOI:10.1109/ICCIC.2016.7919558

Palani Thanaraj Krishnan, Parvathavarthini Balasubramanian: *Detection of Alphabets for Machine Translation of Sign Language using Deep Neural Net*. 2019 International Conference on "Data Science and Communication" CHRIST (Deemed to be University), Bangalore, (INDIA)