

Technical Program Committee (TPC), CSCITA 2017

1. Chairman: Dr. Kevin Prathap Noronha, Member IEEE



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Recent 6 SCI indexed Publications:

1. Noronha, Kevin P., U. Rajendra Acharya, K. Prabhakar Nayak, Roshan Joy Martis, and Sulatha V. Bhandary. "Automated classification of glaucoma stages using higher order cumulant features." *Biomedical Signal Processing and Control* 10 (2014): 174-183.
2. Acharya, U. Rajendra, E. Y. K. Ng, Lim Wei Jie Eugene, Kevin P. Noronha, Lim Choo Min, K. Prabhakar Nayak, and Sulatha V. Bhandary. "Decision support system for the glaucoma using Gabor transformation." *Biomedical Signal Processing and Control* 15 (2015): 18-26.
3. Mookiah, Muthu Rama Krishnan, U. Rajendra Acharya, Hamido Fujita, Joel EW Koh, Jen Hong Tan, Kevin Noronha, Sulatha V. Bhandary et al. "Local configuration pattern features for age-related macular degeneration characterization and classification." *Computers in biology and medicine* 63 (2015): 208-218.
4. Ibrahim, Sulaimon, Pradeep Chowriappa, Sumeet Dua, U. Rajendra Acharya, Kevin Noronha, Sulatha Bhandary, and Hatwib Mugasa. "Classification of diabetes maculopathy images using data-adaptive neuro-fuzzy inference classifier." *Medical & biological engineering & computing* (2015): 1-16.
5. Mookiah, Muthu Rama Krishnan, U. Rajendra Acharya, Joel EW Koh, Chua Kuang Chua, Jen Hong Tan, Vinod Chandran, Choo Min Lim, Kevin Noronha, Augustinus Laude, and Louis Tong. "Decision support system for Age-related Macular Degeneration using

Discrete Wavelet Transform." *Medical & biological engineering & computing* 52, no. 9 (2014): 781-796.

6. Mookiah, Muthu Rama Krishnan, U. Rajendra Acharya, Hamido Fujita, Joel EW Koh, Jen Hong Tan, Chua Kuang Chua, Sulatha V. Bhandary, Kevin Noronha, Augustinus Laude, and Louis Tong. "Automated detection of age-related macular degeneration using empirical mode decomposition." *Knowledge-Based Systems* 89 (2015): 654-668.

2. Member: Dr. U Rajendra Acharya , Senior Member IEEE



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Recent 6 SCI indexed Publications:

1. Acharya, U. Rajendra, Hamido Fujita, Vidya K. Sudarshan, Muthu Rama Krishnan Mookiah, Joel EW Koh, Jen Hong Tan, Yuki Hagiwara et al. "An integrated index for identification of fatty liver disease using radon transform and discrete cosine transform features in ultrasound images." *Information Fusion* 31 (2016): 43-53.
2. Acharya, U. Rajendra, Hamido Fujita, Shreya Bhat, U. Raghavendra, Anjan Gudigar, Filippo Molinari, Anushya Vijayanathan, and Kwan Hoong Ng. "Decision support system for fatty liver disease using GIST descriptors extracted from ultrasound images." *Information Fusion* 29 (2016): 32-39.
3. Sudarshan, Vidya K., Muthu Rama Krishnan Mookiah, U. Rajendra Acharya, Vinod Chandran, Filippo Molinari, Hamido Fujita, and Kwan Hoong Ng. "Application of wavelet techniques for cancer diagnosis using ultrasound images: A Review." *Computers in biology and medicine* 69 (2016): 97-111.

4. Yuvaraj, R., M. Murugappan, U. Rajendra Acharya, Hojjat Adeli, Norlinah Mohamed Ibrahim, and Edgar Mesquita. "Brain functional connectivity patterns for emotional state classification in Parkinson's disease patients without dementia." *Behavioural brain research* 298 (2016): 248-260.
5. Acharya, U. Rajendra, S. Bhat, O. Faust, H. Adeli, EC-P. Chua, W. J. E. Lim, and J. E. W. Koh. "Nonlinear Dynamics Measures for Automated EEG-Based Sleep Stage Detection." *European neurology* 74, no. 5-6 (2015): 268-287.
6. Acharya, U. R., Fujita, H., Sudarshan, V. K., Bhat, S., & Koh, J. E. (2015). Application of entropies for automated diagnosis of epilepsy using EEG signals: A review. *Knowledge-Based Systems*, 88, 85-96

3. Member: Dr. Sumeet Dua, Senior Member IEEE



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Recent 6 SCI indexed Publications:

1. Dua, Sumeet, U. Rajendra Acharya, and Perna Dua. *Machine learning in healthcare informatics*. Springer Berlin Heidelberg, 2014.
2. Acharya, U. R., Faust, O., Sree, S. V., Ghista, D. N., Dua, S., Joseph, P., ... & Tamura, T. (2013). An integrated diabetic index using heart rate variability signal features for diagnosis of diabetes. *Computer methods in biomechanics and biomedical engineering*, 16(2), 222-234.

3. Chowriappa, P., Dua, S., Acharya, U. R., & Krishnan, M. M. R. (2013). Ensemble selection for feature-based classification of diabetic maculopathy images. *Computers in biology and medicine*, 43(12), 2156-2162.
4. Ibrahim, Sulaimon, Pradeep Chowriappa, Sumeet Dua, U. Rajendra Acharya, Kevin Noronha, Sulatha Bhandary, and Hatwib Mugasa. "Classification of diabetes maculopathy images using data-adaptive neuro-fuzzy inference classifier." *Medical & biological engineering & computing* 53, no. 12 (2015): 1345-1360.
5. Chowriappa, P., Dua, S., & Todorov, Y. (2014). Introduction to machine learning in healthcare informatics. In *Machine Learning in Healthcare Informatics* (pp. 1-23). Springer Berlin Heidelberg.
6. Puranik, Ameya D., Nilendu C. Purandare, Sumeet Dua, Kedar Deodhar, Sneha Shah, Archi Agrawal, and Venkatesh Rangarajan. "Isolated mandibular condylar metastases: An uncommon manifestation of recurrent cervical cancer." *Journal of cancer research and therapeutics* 9, no. 1 (2013): 108.

4. Member : Dr.Roshan Joy Martis, Senior Member, IEEE



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Recent 6 SCI indexed Publications:

1. Mookiah, Muthu Rama Krishnan, U. Rajendra Acharya, Vinod Chandran, Roshan Joy Martis, Jen Hong Tan, Joel EW Koh, Chua Kuang Chua, Louis Tong, and Augustinus Laude. "Application of higher-order spectra for automated grading of diabetic maculopathy." *Medical & biological engineering & computing* 53, no. 12 (2015): 1319-1331.
2. Martis, Roshan Joy, Jen Hong Tan, Chua Kuang Chua, Too Cheah Loon, Sharon Wan Jie Yeo, and Louis Tong. "Epileptic EEG Classification Using Nonlinear Parameters on Different Frequency

- Bands." *Journal of Mechanics in Medicine and Biology* 15, no. 03 (2015): 1550040.
3. Molinari, F., Martis, R. J., Acharya, U. R., Meiburger, K. M., De Luca, R., Petraroli, G., & Liboni, W. (2015). Empirical mode decomposition analysis of near-infrared spectroscopy muscular signals to assess the effect of physical activity in type 2 diabetic patients. *Computers in biology and medicine*, 59, 1-9.
 4. Ganesan, Karthikeyan, Roshan Joy Martis, U. Rajendra Acharya, Chua Kuang Chua, Lim Choo Min, E. Y. K. Ng, and Augustinus Laude. "Computer-aided diabetic retinopathy detection using trace transforms on digital fundus images." *Medical & biological engineering & computing* 52, no. 8 (2014): 663-672.
 5. Acharya, U. Rajendra, Muthu Rama Krishnan Mookiah, S. Vinitha Sree, Ratna Yanti, Roshan Martis, Luca Saba, Filippo Molinari, Stefano Guerriero, and Jasjit S. Suri. "Evolutionary algorithm-based classifier parameter tuning for automatic ovarian cancer tissue characterization and classification." In *Ovarian Neoplasm Imaging*, pp. 425-440. Springer US, 2013.
 6. Martis, Roshan Joy, Karthikeyan Ganesan, U. Rajendra Acharya, Chua Kuang Chua, Lim Choo Min, E. Y. K. Ng, Augustinus Laude, and Jasjit S. Suri. "Application of Higher-Order Spectra Cumulants for Diabetic Retinopathy Detection Using Digital Fundus Images." *Ophthalmological Imaging and Applications* (2014).