

Member 5: Dr. Jude Hemanth

Publication Details for last five years:

1. Octavian Postolache, Ricardo Alexandre, Oana Geman, D Jude Hemanth, Deepak Gupta and Ashish Khanna, "Remote Monitoring of Physical Rehabilitation of Stroke Patients using IoT and Virtual Reality", IEEE Journal on Selected Areas in Communications, 2020. (Impact Factor = 9.302).
2. Douglas de A. Rodrigues, Roberto F. Ivo, Suresh Chandra Satapathy, Shuihua Wang, Jude Hemanth and Pedro P. Rebouças Filho, "A new approach for classification skin lesion based on transfer learning, deep learning and IoT system", Pattern Recognition Letters, 2020. (Impact Factor = 2.810).
3. Rachna Jain, Preeti Nagrath, Gaurav Kataria, V. Sirish Kaushik and D. Jude Hemanth, "Pneumonia detection in chest x-ray images using convolutional neural networks and transfer learning", Measurement, 2020. (Impact Factor = 2.791).
4. Maria Flynn, Dimitris Effraimidis, Anastassia Angelopoulou, Epaminondas Kapetanios, David Williams, D Jude Hemanth and Tony Towell, "Assessing the effectiveness of automated emotion recognition in adults and children for clinical investigation", Frontiers in Human Neuroscience, DOI: 10.3389/fnhum.2020.00070, 2020. (Impact Factor = 2.870).
5. Mehshan Ahmed Khan, Muhamed Attique, Fawad Ahmed, Mamta Mittal, Lalit Mohan Goyal, D. Jude Hemanth and Suresh Chandra Satapathy, "Gastrointestinal diseases segmentation and classification based on duo-deep architectures", Pattern Recognition Letters, Vol. 131, pp: 193- 204, 2020.
6. Jose A Marmolejo Saucedo, D. Jude Hemanth and Utku Kose, "Prediction of Electroencephalogram time series with electro-search optimization algorithm trained adaptive neuro-fuzzy inference system", IEEE Access, vol. 7, pp: 15832 -15844, 2019. (Impact Factor = 4.098).
7. Mamta Mittal, Lalit Mohan Goyal, Amit Verma, Iqbaldeep Kaur, Sumit Kaur and D. Jude Hemanth, "Deep learning based enhanced tumor segmentation approach for MR brain images", Applied Soft Computing, vol. 78, pp: 346-354, 2019. (Impact Factor = 4.873).
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10. D. Jude Hemanth and J. Anitha, "Modified Genetic Algorithm approaches for classification of abnormal Magnetic Resonance brain tumor images", Applied Soft Computing, vol. 75, pp: 21-28, 2019. (Impact Factor = 4.873).
11. Mamta Mittal, Lalit Mohan Goyal, D Jude Hemanth and Jasleen Kaur Sethi, "Clustering approaches for high dimensional databases: A review", WIREs Data Mining and Knowledge Discovery, vol. 9, no.3, 2019. (Impact Factor = 2.541).
12. Rachna Jain, Nikita Jain, Akshay Agarwal and D. Jude Hemanth, "Convolutional neural network-based Alzheimer's disease classification from magnetic resonance

- brain images”, *Cognitive Systems Research*, vol. 57, pp: 147-159, 2019. (Impact Factor = 1.384).
13. Pedro Pedrosa Filho, Suane Silva, Victor Praxedes, D. Jude Hemanth and Victor Albuquerque, “Control of singularity trajectory tracking for robotic manipulator by genetic algorithms”, *Journal of Computational Science*, vol. 30, pp: 55-64, 2019, (Impact Factor = 2.502).
 14. Beejesh A, Varun Gopi and D. Jude Hemanth, “Brain MR kurtosis imaging study: Contrasting gray and white matter”, *Cognitive Systems Research*, vol. 55, pp: 135-145, 2019, (Impact Factor = 1.384).
 15. K. Martin Sagayam and D. Jude Hemanth, “A probabilistic model for state sequence analysis in hidden markov model for hand gesture recognition”, *Computational Intelligence*, vol. 35, no.1, pp: 59-81, 2019 (Impact Factor = 0.776).
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 18. D. Jude Hemanth, J. Anitha, Le Hoang Son and Mamta Mittal, “Diabetic Retinopathy diagnosis from retinal images using modified Hopfield neural network”, *Journal of Medical Systems*, <https://doi.org/10.1007/s10916-018-1111-6>, 2018. (Impact Factor = 2.415).
 19. D. Jude Hemanth, J. Anitha and Le Hoang Son, “Brain signal based human emotion analysis by Circular back propagation and deep kohonen neural networks”, *Computers & Electrical Engineering*, vol. 68, pp: 170-180, 2018. (Impact Factor = 2.189).
 20. D.Jude Hemanth, Omer Deperlioglu and Utku Kose, “An enhanced diabetic retinopathy detection and classification approach using deep convolutional neural network”, *Neural Computing and Applications*, 2018. (Impact Factor = 4.664).
 21. D. Jude Hemanth, Utku Kose, Omer Deperlioglu and Victor Hugo Albuquerque, “An augmented reality supported mobile application for diagnosis of heart diseases”, *Journal of Supercomputing*, <https://doi.org/10.1007/s11227-018-2483-6>, 2018, (Impact Factor = 2.157).
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 25. D. Jude Hemanth and Jemima Priyadharshini, “Investigation and Reduction Methods of Specific Absorption Rate (SAR) for Biomedical Applications: a survey”,

- International Journal of RF and Microwave Computer-aided Engineering, vol. 28, no. 3, pp: 1-15, 2018, (Impact Factor = 1.472)
26. Pedro Filho, Solon Peixoto, Raul Nobrega, D Jude Hemanth, Aldisio Medeiros, Arun Kumar S and Victor Hugo Albuquerque, "Automatic histologically-closer classification of skin lesions", Computerized Medical Imaging and Graphics, 2018, (Impact Factor =3.298)
 27. Longfei Zheng, Yu Wang, D. Jude Hemanth, Arun Kumar Sangiah, Lijun Wu and Fuqian Shi, "Data augmentation on mice liver cirrhosis microscopic images employing convolutional neural networks and support vector machine", Journal of Ambient Intelligence and Humanized Computing, 2018, (Impact Factor =1.910)
 28. Bhavneet Kaur, Meenakshi, Mamta Mittal, Amit Varma, Lalit Mohan Goyal and D. Jude Hemanth, "An improved salient object detection algorithm combining background and foreground connectivity for brain image analysis", Computers and Electrical Engineering, 2018, (Impact Factor = 2.189)
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 34. D.Jude Hemanth, S. Uma Maheswari, Daniela Elena Popescu and Antonalla Naaji, "Application of Genetic Algorithm and Particle Swarm Optimization techniques for improved image steganography systems", Open Physics, DOI:10.1515/phys-2016-0052, 2016. (Impact Factor = 1.005).
 35. K. Martin Sagayam and D. Jude Hemanth, "Hand posture and gesture recognition techniques for virtual reality applications: A survey", Virtual Reality, DOI: 10.1007/s10055-016-0301-0, 2016. (Impact Factor = 2.906).
 36. S. Uma Maheswari & D. Jude Hemanth "Frequency domain QR code based image steganography using Fresnelet transform", International Journal of Electronics and Communications (Elsevier), vol.69, no.2, pp. 539-544, 2015. (Impact Factor 2.853).
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Applications (Springer), DOI: 10.1007/s11042-015-3035-1, 2015. (Impact Factor = 2.101).

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40. Mohammed Majid Al-Rifaie, Ahmed Aber & D. Jude Hemanth, "Deploying swarm intelligence for medical imaging: Identifying metastasis, microcalcification and brain image segmentation", IET systems biology, doi: 10.1049/iet-syb.2015.0036, 2015. (Impact Factor = 1.392).