

**Name of DC Member: Dr.Jude Hemanth**

**List of Publications**

**Year: 2020**

1. Pneumonia detection in chest X-ray images using convolutional neural networks and transfer learning, R Jain, P Nagrath, G Kataria, VS Kaushik, DJ Hemanth, Measurement, volume: 165, Pg:108046
2. Deep learning based detection and analysis of COVID-19 on chest X-ray images, R Jain, M Gupta, S Taneja, DJ Hemanth, Applied Intelligence, 1-11
3. Remote Monitoring of Physical Rehabilitation of Stroke Patients using IoT and Virtual Reality, O Postolache, R Alexandre, O Geman, DJ Hemanth, D Gupta, A Khanna, IEEE Journal on Selected Areas in Communications
4. Cancer Cell Detection through Histological Nuclei Images Applying the Hybrid Combination of Artificial Bee Colony and Particle Swarm Optimization Algorithms, FA Alsarori, H Kaya, J Rahebi, DE Popescu, DJ Hemanth, International Journal of Computational Intelligence Systems 13 (1), 1507-1516
5. Early diagnosis of COVID-19-affected patients based on X-ray and computed tomography images using deep learning algorithm, D Dansana, R Kumar, A Bhattacharjee, DJ Hemanth, D Gupta, A Khanna, Soft Computing, 1-9
6. Novel Optimization Based Hybrid Self-Organizing Map Classifiers for Iris Image Recognition, JJ Winston, GF Turker, U Kose, DJ Hemanth, International Journal of Computational Intelligence Systems 13 (1), 1048-1058
7. Forest data visualization and land mapping using support vector machines and decision trees, S Radhakrishnan, AS Lakshminarayanan, JM Chatterjee, DJ Hemanth, Earth Science Informatics, 1-19
8. Automatic Detection of White Blood Cancer From Bone Marrow Microscopic Images Using Convolutional Neural Networks, D Kumar, N Jain, A Khurana, S Mittal, SC Satapathy, R Senkerik, IEEE Access 8, 142521-142531
9. Segmentation and Evaluation of COVID-19 Lesion from CT scan Slices-A Study with Kapur/Otsu Function and Cuckoo Search Algorithm, SC Satapathy, DJ Hemanth, S Kadry, G Manogaran, NMS Hannon, ...
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13. Emotion Recognition Using Feature Extraction Techniques, MK Chowdary, DJ Hemanth, Information Technology and Intelligent Transportation Systems 323, 71
14. Gastrointestinal diseases segmentation and classification based on duo-deep architectures, MA

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15. A modified fuzzy logic relation-based approach for electricity consumption forecasting in India, R Jain, N Jain, Y Gupta, T Chugh, T Chugh, DJ Hemanth, International Journal of Fuzzy Systems 22 (2), 461-475
  16. Bat Algorithm Based Non-linear Contrast Stretching for Satellite Image Enhancement, A Asokan, DE Popescu, J Anitha, DJ Hemanth, Geosciences 10 (2), 78
  17. An augmented reality-supported mobile application for diagnosis of heart diseases, JD Hemanth, U Kose, O Deperlioglu, VHC de Albuquerque, The Journal of Supercomputing 76 (2), 1242-1267
  18. An enhanced diabetic retinopathy detection and classification approach using deep convolutional neural network, DJ Hemanth, O Deperlioglu, U Kose, Neural Computing and Applications 32 (3), 707-721
  19. Artificial Intelligence and Applied Mathematics in Engineering Problems: Proceedings of the International Conference on Artificial Intelligence and Applied Mathematics, DJ Hemanth, U Kose, Springer Nature
  20. Image Processing Techniques for Analysis of Satellite Images for Historical Maps Classification—An Overview, A Asokan, J Anitha, M Ciobanu, A Gabor, A Naaji, DJ Hemanth, Applied Sciences 10 (12), 4207
  21. Moments-Based Feature Vector Extraction for Iris Recognition, JJ Winston, DJ Hemanth, International Conference on Innovative Computing and Communications, 255-263
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  23. Scene Understanding Using Deep Neural Networks—Objects, Actions, and Events: A Review, R Surendran, DJ Hemanth, International Conference on Innovative Computing and Communications, 223-231
  24. Assessing the Effectiveness of Automated Emotion Recognition in Adults and Children for Clinical Investigation, M Flynn, D Effraimidis, A Angelopoulou, E Kapetanios, D Williams, Frontiers in Human Neuroscience 14
  25. EEG signal based Modified Kohonen Neural Networks for Classification of Human Mental Emotions, DJ Hemanth, Journal of Artificial Intelligence and Systems 2, 1-13
  26. Recent Advances on Memetic Algorithms and Its Applications in Image Processing, DJ Hemanth, BV Kumar, GRK Manavalan, Springer
  27. Human Behaviour Analysis Using Intelligent Systems, DJ Hemanth, Springer
  28. Artificial Intelligence Techniques for Satellite Image Analysis, DJ Hemanth, Springer
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30. An investigation on specific absorption rate reduction materials with human tissue cube for biomedical applications, JP Stephen, DJ Hemanth, International Journal of RF and Microwave Computer-Aided Engineering 29
31. Intelligent Data Communication Technologies and Internet of Things: ICICI 2019, DJ Hemanth, S Shakya, Z Baig, Springer Nature
32. Emerging Trends in Computing and Expert Technology, DJ Hemanth, VDA Kumar, S Malathi, O Castillo, B Patrut, Springer Nature
33. Optimization of SVM-Based Hand Gesture Recognition System Using Particle Swarm Optimization and Plant Growth Simulation Algorithm. KM Sagayam, S Suresh, DJ Hemanth, L Hennessey, CC Ho
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44. Deep learning based enhanced tumor segmentation approach for MR brain images, M Mittal, LM Goyal, S Kaur, I Kaur, A Verma, DJ Hemanth, Applied Soft Computing 78, 346-354
45. Clustering approaches for high-dimensional databases: A review, M Mittal, LM Goyal, DJ Hemanth, JK Sethi, Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery 9
46. Monitoring the impact of economic crisis on crime in India using machine learning, M Mittal, LM Goyal, JK Sethi, DJ Hemanth, Computational Economics 53 (4), 1467-1485
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54. Feature extraction techniques for human emotion identification from face images, MK Chowdary, DJ Hemanth, A Angelopoulou, E Kapetanios, IET Digital Library
55. Human emotion recognition using intelligent approaches: A review, MK Chowdary, DJ Hemanth, Intelligent Decision Technologies 13 (4), 417-433
56. Data Visualization and Knowledge Engineering, J Hemanth, M Bhatia, O Geman, Springer Nature Switzerland 32, 79-107
57. IoT based heart activity monitoring using inductive sensors, A Brezulianu, O Geman, MD Zbancioc, M Hagan, C Aghion, DJ Hemanth, Sensors 19 (15), 3284
58. Pyramid-Based Multi-scale Enhancement Method for Iris Images, JJ Winston, DJ Hemanth, Recent Trends in Signal and Image Processing, 13-21
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68. Automatic histologically-closer classification of skin lesions, PP RebouçasFilho, SA Peixoto, RVM da Nóbrega, DJ Hemanth, Computerized Medical Imaging and Graphics 68, 40-54
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91. Emergency response cyber-physical system for disaster prevention with sustainable electronics, VV Estrela, O Saotome, J Hemanth, RJR Cabral, Proceedings of the 10th International Conference on Pervasive Technologies ...
92. Analysis of wavelet, ridgelet, curvelet and bandelet transforms for QR code based image steganography, DJ Hemanth, DE Popescu, M Mittal, SU Maheswari, 2017 14th International Conference on Engineering of Modern Electric Systems
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