

## INTERNATIONAL JOURNALS

1. **D. Jude Hemanth**, J. Anitha, Antoanela Naaji, Oana Geman, Daniela Elena Popescu and Le Hoang Son, "A Modified Deep Convolutional Neural Network for abnormal brain image classification", IEEE Access, vol. 7, pp: 4275-4283, 2018. (Impact Factor = 3.745).
2. 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, (Accepted), 2020. (Impact Factor = 11.420).
3. 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, (Accepted), 2020. (Impact Factor = 3.255).
4. Anju Asokan, J. Anitha, Monica Ciobanu, Andrei Gabor, Antoanela Naaji and **D. Jude Hemanth**, "Image Processing Techniques for Analysis of Satellite Images for Historical Maps Classification An Overview", Applied Sciences, Vol. 10, No. 12, 4207, 2020. (Impact Factor = 2.474).
5. 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, (Accepted), 2020. (Impact Factor = 3.364).
6. 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 = 5.472).
7. Maria Flynn, Dimitris Efthymidis, 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 = 2.673).
8. 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 = 3.745).
9. 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. (Impact Factor = 3.255).
10. Debabrata Dansana, Raghvendra Kumar, Aishik Bhattacharjee, **D. Jude Hemanth**, Deepak Gupta, Ashish Khanna, Oscar Castillo, "Early diagnosis of COVID-19-affected patients based on X-ray and computed tomography images using deep learning algorithm", Soft Computing, DOI: 10.1007/s00500-020-05275-y, 2020.
11. S Jemimah Priyadarshini and **D. Jude Hemanth**, "Investigation of Nanomaterial Dipoles for SAR reduction in Human Head", Frequenz, (Accepted), 2019. (Impact Factor = 0.543).

Oana Geman, Octavian Postolache, Luliana Chiuchisan, Marius Prelipceanu, Ritambhara and **D. Jude Hemanth**, "An Intelligent Assistive Tool using Exergaming and Response Surface Methodology for patients with brain disorders", IEEE Access, vol.7, pp: 21502-21513, 2019. (Impact Factor = 3.745).

12.**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 = 5.472).

13.**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, (Accepted), 2018. (Impact Factor = 4.774).

14. Deepika Kumar, Nikita Jain, Aayush Khurana, Sweta Mittal, Suresh Chandra Satapathy, Roman Senkerik and **D. Jude Hemanth**, "Automatic Detection of White Blood Cancer From Bone Marrow Microscopic Images Using Convolutional Neural Networks", IEEE Access, vol.8, pp: 142521 — 142531, 2020.

15. Mamta Mittal, Lait 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 = 4.476).

16. 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 = 1.902).

17. Hongwei Chen, Luying Cao, **D. Jude Hemanth**, Zairan Li, Lijun Wu, Victor Hugo and Fuqian Shi, "Evaluation on diabetic plantar pressure data-set employing auto-segmentation technologies", Neural Computing and Applications, <https://doi.org/10.1007/s00521-018-3838-x>, 2018. (Impact Factor = 4.774).

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 = 3.058).

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 = 2.663).

20. **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 = 2.469).

21. 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 = 2.644).

22. 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

= 1.902).

- 23.K. Martin Sagayam and **D. Jude Hemanth**, "ABC algorithm-based optimization of I-D Hidden Markov Model for hand gesture recognition applications", *Computers in Industry* (Elsevier), vol. 99, pp:313-323, 2018 (Impact Factor = 3.954).
- 24.**D. Jude Hemanth**, J. Anitha, Daniela Elena Popescu and Le Hoang Son, "A Modified Genetic Algorithm for Performance Improvement of Transform based Image Steganography Systems". *International Journal of Intelligent and Fuzzy Systems*, DOI: 10.3233/JIFS-169580, 2018, (Impact Factor = 1.851)
- 25.J Revathi, Anitha J, Rizwan P, R Manikandan, **D Jude Hemanth** and Amir H Gandomi, "Machine learning based left ventricular hypertrophy detection using multi-lead ECG signal", *Neural Computing and Applications*, DOI: <https://doi.org/10.1007/s00521-020-05238-2>, 2020. (Impact Factor = 4.774).
- 26.J.Jenkin Winston, Gul Fatma Turker, Utku Kose and **D. Jude Hemanth**, "Novel Optimization based hybrid self-organising map classifiers for iris image recognition", *International Journal of Computational Intelligence Systems*, vol.13, no.1, pp: 1048-1058, 2020. (Impact Factor = 1.838).
- 27.I. Jenkin Winston and **D. Jude Hemanth**, "A comprehensive review on iris image based biometric systems", *Soft Computing*, DOI: 10.1007/s00500-018-3497-y, 2018. (Impact Factor = 3.050).
- 28.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 = 1.196).
- 29.**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 1.528)
- 30.Mamta Mittal, Lalit Mohan Goyal, Jasleen Kaur Sethi and **D. Jude Hemanth**, "Monitoring the impact of economic crisis on crimes using machine learning techniques", *Computational Economics*, vol. 53, no. 4, pp: 1467-1485, 2019. (Impact Factor = 1.317)
- 31.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*, (Accepted), 2018, (Impact Factor =3.750)
- 32.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*, (Accctntcd), 2018, (Impact Factor =4.594)
- 33.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*, (Accepted), 2018, (Impact Factor = 2.663)
- 34.**D.Jude Hemanth**, J. Anitha and Bernadetta Kwintiana Ane, "Fusion of Artificial Neural Networks for Learning Capability Enhancement: Application to Medical Image Classification", *Expert Systems*, <https://doi.org/10.1111/exsy.12225>, 2017, (Impact Factor = 1.546)

- 35.**D.Jude Hemanth** and J. Anitha, "A pattern based Artificial Bee Colony Algorithm for motion estimation in video compression techniques", Circuits, Systems and Signal Processing, DOI: 10.1007/s00034-017-0613-7, 2017, (Impact Factor = 1.681)
- 36.**D.Jude Hemanth**, J. Anitha & Valentina Emilia Balas, "Fast and Accurate Fuzzy C-Means algorithm for MR brain image segmentation" International journal of imaging systems and technology, vol.26, no.3, pp: 188-195 , 2016. (Impact Factor = 1.925).
- 37.**D.Jude Hemanth**, J. Anitha & A. Indumathy, "Diabetic Retinopathy diagnosis in retinal images using Hopfield neural network" IETE Journal of Research, DOI:10.1080/03772063.2016.1221745 , 2016. (Impact Factor = 1.125).
- 38.**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 = 0.963).
- 39.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 = 3.634).
- 40.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 2.924).
- 41.S. Uma Maheswari & **D. Jude Hemanth** "A Hybrid Edge Detector and Ridgelet Transform based steganography technique for imaging applications", Defense Science Journal, vol.65, no.3, pp: 214-219, 2015. (Impact Factor = 0.730).
- 42.S. Uma Maheswari & **D. Jude Hemanth** "Performance Improved Transform based Image Steganography Systems using Optimization Techniques", Multimedia Tools and Applications (Springer), DOI: 10.1007/s11042-015-3035-1, 2015. (Impact Factor = 2.313).
- 43.**D.Jude Hemanth**, J. Anitha & Valentina Emilia Balas, "Performance Improved Modified Fuzzy C-Means Algorithm for Image Segmentation Applications" Informatica, Vol.26, No.4, pp:1-14, 2015. (Impact Factor = 3.312).
- 44.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 = 1.000).
- 45.**D.Jude Hemanth**, C.Kezi Selva Vijila, A.Immanuel Selvakumar & J.Anitha, "Performance Improved Iteration-Free Artificial Neural Networks for Abnormal Magnetic Resonance Brain Image Classification", Neurocomputing (Elsevier), vol.130, pp.98-107, 2014 (Impact Factor = 4.438).
- 46.**D.Jude Hemanth**, C.Kezi Selva Vijila, A.Immanuel Selvakumar & J.Anitha "Distance Metrics based Time Efficient Fuzzy Algorithm for Abnormal MR Brain Image Segmentation", Neural Computing & Applications (Springer), Vol.22, No.5, pp. 1013-1022, 2013. (Impact Factor = 4.774).
- 47.J. Anitha & **D.Jude Hemanth**, "An Efficient Kohonen-Fuzzy Neural Network Based Abnormal Retinal Image Classification System", Neural Network World, Vol.23, no.6, pp: 149-167, 2013. (Impact Factor = 0.635).

- 48.J.Anitha, C.K.S.Vijila, A.I.Selvakumar, A.Indumathy & **D.Jude Hemanth**, "Automated multi- level pathology identification techniques for abnormal retinal images using Artificial Neural Networks", British Journal of Ophthalmology, Vol.96, no.2, pp: 220-223, 2012. (Impact Factor= 3.611).
- 49.J.Anitha, C.K.S.Vijila, A.I.Selvakumar & **D.Jude Hemanth**, "Performance improved PSO based modified Kohonen neural network for retinal image classification", Journal of Chinese Institute of Engineers, Vol.35, no.8, pp: 979-991, 2012. (Impact Factor = 0.667).
- 50.**D.Jude Hemanth**, C.Kezi Selva Vijila & J.Anitha "A High Speed Back Propagation Neural Network for Multistage MR Brain Tumor Image Segmentation", Neural Network World, Vol.21, no.1, 2011. (Impact Factor = 0.635).
- 51.Alexandru Popa, Mihaela Hnatiuc, Mirel Paun, Oana Geman and **Jude Hemanth**, Daniel Dorcia, Simona Ghita and Le Hoang Son, "An Intelligent IoT Based Food Quality Monitoring Approach Using Low Cost Sensors", Symmetry, (Accepted), 2019. (Impact Factor = 2.645).
- 52.Rachna Jain, Nikita Jain, Yash Gupta, Tarun Chugh, Tushar Chugh and **D. Jude Hemanth**, "A Modified Fuzzy Logic Relation Based Approach for Electricity consumption forecasting in India", International Journal of Fuzzy Systems, (Accepted), 2019. (Impact Factor = 4.406).
- 53.J Jenkin Winston and **D Jude Hemanth**, "Performance enhanced modified self-organising map for iris data classification", Expert Systems, (Accepted), 2019. (Impact Factor = 1.546).
- 54.Adrian Brezilianu, Oana Geman, Marius Dan Zbancioc, Marius Hagan, Cristian Aghion, **D Jude Hemanth** and Le Hoang Son, "IoT Based Heart Activity Monitoring Using Inductive Sensors", Sensors, (Accepted), 2019. (Impact Factor = 3.240).
- 55.Ansh Mittal, Anu Soorya, Preeti Nagrath and **D Jude Hemanth**, "Data Augmentation based morphological classification of galaxies using deep convolutional neural network", Earth Science Informatics, DOI: 10.1007/s12145-019-00434-8, 2019. (Impact Factor = 1.450).
- 56.Sujatha R, Aarthy S L, Jyotir Moy Chatterjee and **D. Jude Hemanth**, "Forest data visualization and land mapping using support vector machines and decision trees", Earth Science Informatics, DOI: <https://doi.org/10.1007/s12145-020-00492-3>, 2020. (Impact Factor = 1.450).
- 57.A Anju Asokan, Daniela Elena Popescu, J Anitha and **D Jude Hemanth**, "Bat algorithm based non-linear contrast stretching for satellite image enhancement", Geosciences, (Accepted), 2020. (Scopus)
- 58.J Revathi, J. Anitha and **D Jude Hemanth**, "Training Feedforward Neural Network using Genetic Algorithm to Diagnose Left Ventricular Hypertrophy", Telkomnika, (Accepted), 2020. (Scopus)
- 59.B. Ben Sujin, C. Kezi Selva Vijila, **Jude Hemanth** and Cynthia Hubert, "Frequency Dependent Adaptive Chemotaxis in Bacterial Foraging Optimization for ST Segment Elevation Myocardial Infarction Prediction", Indian Journal of Science and Technology, Vol. 9, No.1, pp.1-9, 2016
- 60.Abder-Rehman Ali, Couceiro Micael, Aboul Ella Hassanien and **Jude Hemanth D**, "Fuzzy C- means based on Minkowski distance for liver CT image segmentation", Intelligent Decision Technologies-An International Journal", vol.10, pp: 393-407, 2016, (Scopus)

61.M Kalpana Chowdhry and **D Jude Hemanth**, "Human emotion recognition using intelligence approaches: A review", Intelligent Decision Technologies — An International Journal, vol.13, no.4, pp: 417-433, 2019.

62.K T Dilna and **D. Jude Hemanth**, "Detection of uterus fibroids in ultrasound images: a survey", International Journal of Pure and Applied Mathematics, vol. 18, no.6, 2018, (Scopus)

63.Revathi J, Anitha J and **D Jude Hemanth**, "An Intelligent Medical Decision Support System for Diagnosis of Heart Abnormalities in ECG Signals", Intelligent Decision Technologies — An International Journal, (Accepted), 2020.

64.S. Uma Maheswari & **D.Jude Hemanth**, "A survey on different methodologies for image steganography based data hiding applications", International Journal of Information and Communication Technology, Vol. 7, No. 4/5, pp: 521-536, 2015. (Scopus)

65.S. Uma Maheswari & **D. Jude Hemanth** "Discrete Ripplet transform based steganography system for imaging applications", International Journal of Reasoning based intelligent systems, vol.7, no.1/2, pp:130-135, 2015. (Scopus)