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**Publication**

**Journal**

1. Rachna Jain, Meenu Gupta, Soham Taneja, D. Jude Hemanth, “Deep learning based detection and analysis of COVID-19 on chest X-ray images” Appl. Intell. 51(3): 1690-1700,2021.
2. 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).**
3. 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).**
4. 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).**
5. 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).
6. 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).**
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 = 5.472).**
8. 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 = 2.673).**

9. 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).**
10. 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).**
11. 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.
12. S Jemimah Priyadarshini and D Jude Hemanth, "Investigation of Nanomaterial Dipoles for SAR reduction in Human Head", Frequenz, (Accepted), 2019. **(Impact Factor = 0.543).**
13. 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).**
14. 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).**
15. 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).**
16. Deepika Kumar, Nikita Jain, Aayush Khurrana, 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.
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19. 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).

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25. K. Martin Sagayam and D. Jude Hemanth, "ABC algorithm-based optimization of 1-D Hidden Markov Model for hand gesture recognition applications", Computers in Industry (Elsevier), vol. 99, pp:313-323, 2018 (**Impact Factor = 3.954**).
26. 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)
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39. 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**).
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41. 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**).

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54. 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**).
55. 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**).
56. Adrian Brezulianu, 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**).
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60. J Revathi, J. Anitha and D Jude Hemanth, "Training Feedforward Neural Network using Genetic Algorithm to Diagnose Left Ventricular Hypertrophy", Telkomnika, (Accepted), 2020. (Scopus)
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75. A Anitha Angeline, L Godson Asirvatham, D Jude Hemanth, J Jayakumar and Somchai Wongwises, "Performance prediction of hybrid thermoelectric generator with high accuracy using artificial neural networks", *Sustainable energy technologies and assessments*, vol. 33, pp: 53-60, 2019. (Scopus)

### **International Conferences**

1. Dada Emmanuel Gbenga, D. Jude Hemanth, Haruna Chiroma, Shafi'i Muhammad Abdulhamid and Adewale Johnson Taiwo, "Non-nested Generalization (NNGE) algorithm for efficient and early detection of diabetes", 3rd International Conference on Information Technology and Intelligent Transportation Systems, (Accepted), 2018. Place: China (scopus)
2. Jemimah Priyadharshini and D Jude Hemanth, "Investigation of SAR exposure assessment in vital human tissues at GSM frequency", Proceedings of 4th International Conference on signal processing and intelligent recognition systems, pp: 366-372, 2019. Publisher: Springer, Place: Bangalore. (scopus)
3. Jenkin Winston and D Jude Hemanth, "Pyramid-based multi scale enhancement method for iris images", 2nd International Symposium on Signal and Image Processing, pp: 13-21, Publisher: Springer, Place: RCC Institute of Information Technology, Kolkata, 2019. (scopus)
4. J. Anitha, P. Eben Sophia and D. Jude Hemanth, "An optimized predictive coding algorithm for medical image compression", Proceedings of 2nd International Conference on Artificial Intelligence, pp: 315-324, Publisher: Springer, Place: University of Moratuwa, Srilanka, 2019 (Scopus)
5. K T Dilna and D. Jude Hemanth, "Fibroid detection in ultrasound uterus images using image processing techniques", International Conference on Innovative Computing and Communications, pp: 173-179, Publisher: Springer, Place: New Delhi, 2020 (Scopus).
6. Ranjini Surendran and D. Jude Hemanth, "Scene Understanding using deep neural networks: A review", International Conference on Innovative Computing and Communications, pp: 223-231, Publisher: Springer, Place: New Delhi, 2020 (Scopus).
7. J Jenkin Winston and D. Jude Hemanth, "Moments based feature vector extraction for iris recognition", International Conference on Innovative Computing and Communications, pp: 255-263, Publisher: Springer, Place: New Delhi, 2020 (Scopus).
8. J Jenkin Winston and D Jude Hemanth, "Performance comparison of feature extraction methods for iris recognition", International Conference on Information Technology and Intelligent Transportation Systems", pp: 62-70. Publisher : IOS Press, Place: China (Scopus).
9. M Kalpana Chowdary and D Jude Hemanth, "Emotion recognition using feature extraction techniques", International Conference on Information Technology and Intelligent Transportation Systems", pp: 71-76. Publisher : IOS Press, Place: China (Scopus).
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14. Vania Estrela, Osamu Saotome, Jude Hemanth and Rui Cabral, "Emergency Response Cyber-Physical System for Disaster Prevention with Sustainable Electronics", Proceedings of 10th International Conference on Pervasive Technologies related to Assistive Environments, DOI : [http://dx.doi.org/ 10.1145/3056540.3064966](http://dx.doi.org/10.1145/3056540.3064966), Publisher : ACM, Place : Greece, 2017. (scopus)
15. D. Jude Hemanth, Daniela Elena Popescu, Mamta Mittal and S Uma Maheswari, "Analysis of Wavelet, Ridgelet, Curvelet and Bandelet transforms for QR code based Image Steganography", International Conference on Engineering of Modern Electric Systems, pp: 121-126, Publisher : IEEE, Place: Romania, 2017. (scopus)
16. Daniela Elena Popescu, Marcela Florina Prada, Anca Dodescu, D. Jude Hemanth and Constantin Bungau, "A secure confident cloud computing architecture solution for a smart campus", Proceedings of 7th International Conference on Computers, Communications and Control, pp: 240-245, Publisher : IEEE, Place: Romania, 2018 (Scopus)
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20. J. J. Winston, D. J. Hemanth, A. Angelopoulou and E. Kapetanios, "Iris image recognition using optimized Kohonen self organizing neural network," 9th International Conference on Imaging for Crime Detection and Prevention (ICDP-2019), London, UK, 2019, pp. 74-79. (Scopus)
21. M. K. Chowdary, D. J. Hemanth, A. Angelopoulou and E. Kapetanios, "Feature extraction techniques for human emotion identification from face images," 9th International Conference on Imaging for Crime Detection and Prevention (ICDP-2019), London, UK, 2019, pp. 86-92. (Scopus)

### **Books/ Edited Books/ Book Chapters/ Editorials**

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2. D.Jude Hemanth and Valentina Emilia Balas (eds), “Biologically Rationalized Computing Techniques for Image Processing Applications” in the Springer series Lecture Notes on Computational Vision and Biomechanics (Springer), 2017. (Scopus)
3. D. Jude Hemanth and Vania Viera Estrela (eds), “Deep Learning for Image Processing Applications” in the Advances in Parallel Computing Series (IOS Press), 2018. (Scopus)
4. Mamta Mittal, D. Jude Hemanth, Valentina Emilia Balas and Ragavendra Kumar (eds), “Big Data for Parallel Computing” in the Advances in Parallel Computing Series (IOS Press), 2018. (Scopus)
5. D. Jude Hemanth (eds), “Artificial Intelligence Techniques for Satellite Image Analysis” in the Remote sensing and Digital Image Processing Series (Springer), 2019. (Scopus)
6. D. Jude Hemanth and Valentina Emilia Balas (eds), “Nature Inspired Optimization techniques for image processing applications” in the Intelligent Systems Reference Library series (Springer), 2018. (Scopus)
7. D.Jude Hemanth, Deepak Gupta and Valentina Emilia Balas (eds), “Intelligent Data Analysis for Biomedical Applications : Challenges and Solutions”, in the Intelligent Data Centric Systems series (Elsevier), 2018. (Scopus)
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12. D. Jude Hemanth et al. (eds), “Proceedings of International Conference on Intelligent Data Communication Technologies and Internet of Things”, in the Lecture Notes on Data Engineering and Communications Technologies series (Springer), 2018.
13. D.Jude Hemanth and Utku Kose (eds), “Artificial Intelligence and Applied Mathematics in Engineering Problems”, in the Lecture Notes on Data Engineering and Communications Technologies series (Springer), 2018.
14. D. Jude Hemanth, Oscar Castillo, Bogdan Patrut, et. al. (eds), “Emerging Trends in Computing and Expert Technology”, in the Lecture Notes on Data Engineering and Communications Technologies series (Springer), 2018.
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18. K. Martin Sagayam and D.Jude Hemanth, "Optimization of Compressive Sensing based 2-D HMM approach using ABC Algorithm for Hand Motion Recognition System" in Hybrid Intelligent Techniques for Pattern Analysis and Understanding, CRC Press, Siddharth Bhattacharya, Anirban Mukherjee and Indrajit Pan (eds), 2016. (Scopus)
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