Dr. S.Deepa, M.E., Ph.D.,

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Dr.S.Deepa is currently working as Assistant Professor in the Department of Computer Science and Engineering in SRM Institute of Science and Technology (Ramapuram Campus). She received her BE (CSE) from Sri Venkateswara College of Engineering and Technology, Madras University, ME (CSE) from Jaya Engineering College, Anna University and PhD from College of Engineering, Anna University. She has 18 years of teaching experience and she has published more than 25 papers in published in SCI, Scopus and UGC Care Journals. She is an active member in ISTE. She has already published 2 books in the Computer Science domain. She has organised and participated as a core member in numerous international and national Guest Lecture, FDP's and National and International Conferences. She has two patents. Her research interest includes Image processing and Pattern Recognition. She is a Research supervisor in SRM Institute of Science and Technology. She also hosted many workshop and seminar and key role in accreditation activities.

Area of Research:

Image processing, Pattern recognition, Computer Vision, Deep Learning and Video Analytics

Selected Publications:

1. Padmapriya, S., Umamageswari, A., Deepa, S., & Faritha Banu, J. (2023) A novel deeplearning based underwater image de-noising and detecting suspicious object. **Journal ofIntelligent & Fuzzy Systems, (Preprint), 1-16. Doi: 10.3233/JIFS-234002(SCI &SCOPUS)**
2. Sivapatham, D., Arasakumaran, U., Annappan, B., Chandrasekaran, S. (2023). Analysis of genetic face images with respect to reflexology for prediction of diseases. **Traitement du Signal, Vol. 40, No. 1, pp. 21-30. https://doi.org/10.18280/ts.400102 (SCI & Scopus)**

3. Deepa, S., Umamageswari, A., Menaka, S. (2023). A Novel Hand Gesture Recognition for Aphonic People Using Convolutional Neural Network. In: Kannan, R.J., Thampi, S.M., Wang, SH. (eds**) Computer Vision and Machine Intelligence Paradigms for SDGs. Lecture Notes in Electrical Engineering, vol 967. Springer, Singapore. https://doi.org/10.1007/978-981-19-7169-3_22(SCOPUS)**

4. S. Deepa, A. Umamageswari and S. Shoba, "A Unified Methodology for Early recognition of Diabetic Retinopathy," 2022 Third International Conference on Smart Technologies in Computing**, Electrical and Electronics (ICSTCEE), Bengaluru, India, 2022, pp. 1-7, doi: 10.1109/ICSTCEE56972.2022.10100243.(SCOPUS)**

5. A. Umamageswari, S. Deepa and J. F. Banu, "Achieving Linear and Systematic Perspectives to detect stroke rehabilitation exercise posture using Neural Network," 2022 Third International Conference on Smart Technologies in Computing, **Electrical and Electronics (ICSTCEE), Bengaluru, India, 2022, pp. 1-5, doi: 10.1109/ICSTCEE56972.2022.10099488.(SCOPUS)**

6. Umamageswari, A., Deepa, S., & Raja, K. (2022). An enhanced approach for leaf disease identification and classification using deep learning techniques. **Measurement: Sensors, 100568. (SCOPUS)**

7. Deepa, S., Bhagyalakshmi, A., Rajalakshmi, S., & Ishwarya, M. V. (2022, October). New controlled and unmonitored learning methods pulmonary and cancer progression characterisation. In AIP Conference Proceedings (Vol. 2519, No. 1, p. 030071). AIP Publishing LLC..(**SCOPUS & WOS**)

8. Umamageswari, A., Deepa, S., & Beevi, L. S. (2022). A novel approach for classification of diabetics from retinal image using deep learning technique. **International Journal of Health Sciences, 6(S1), 2729–2736. https://doi.org/10.53730/ijhs.v6nS1.5196. (WOS)**

9. Bhagyalakshmi A, Deepa S, Parthiban N,(2021),' Applications of Object Detection, Brain Tumor Detection and Classification' **Advances in parallel computing, Volume 40,IOS Press, 261-270, DOI:10.3233/APC210148** (**SCOPUS)**

10. Deepa S., Bhagyalakshmi A., Chamundeeswari V.V., Winster S.G. (2021) 'Virtual Image Representation and Adaptive Weighted Score Level Fusion for Genetic Face Recognition'. In: Sivasubramanian A., Shastry P.N., Hong P.C. (eds) **Futuristic Communication and Network Technologies. Lecture Notes in Electrical Engineering, vol 792. Springer, Singapore. https://doi.org/10.1007/978-981-16-4625-6_77. (SCOPUS &WOS)**

11. **Deepa, S** &Vijaya Chamundeeswari, V 2020, 'Genetic Based Face Recognition for Healthcare Applications', Published in **Journal of Medical Imaging and Health Informatics, vol. 10, no. 3, pp. 593-603 DOI:10.1166/ jmihi.2020.2965.(Annexure 1)(SCI, IF:0.659)**

12. **Deepa, S** &VijayaChamundeeswari, V 2016, 'A novel approach for Genetic face recognition ', published in **IEEE Explore** in 2015 International Conference on Information Processing (ICIP), Pune ,JUNE 2016, DOI: 10.1109/INFOP.2015.7489485**.(SCOPUS)**

Patents:

1. IOT, AI, ML BASED PADDY-DISEASE PREVENTION SYSTEM USING (DNN) DEEP-NEURAL-NETWORKS AND IMAGE- PROCESSING. No.202241006977, Publication Date: 04/03/2022.
2. Recognition of cyber-bullying on social media using (ML) machine learning approach. 202341002315, Publication Date:17/02/2023.

Book Publication

1.Object Oriented Design and Programming, Selfypage Developers Pvt Ltd, IIP Iterative International Publishers,2023, ISBN: 978-1-68576-408-1.

2. Compiler Design Concepts And Techniques Kindle Edition, BLUE INK PUBLISHING HOUSE; 1st edition (14 May 2022), ISBN: 978-93-92473-10-4.

3. Data communications and computer networking, Notion Press (10 March 2021),ISBN: 978-1638503392

Professional Bodies:

1. Life Time Member in Indian society of Technical Education (Member ID: LM 57268)
2. International Association of Engineers (IAENG) (Member No:335686)
3. Computer Science Teachers Association, (CSTA), Chennai, Tamil Nadu, IN.

Google Scholar:

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