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Education

- 2019 – 2023 **Ph.D.** in CSE, NIT Jamshedpur, Jharkhand
Thesis title: *Design and Development of 2D & 3D Ear Based Recognition System Using Deep Learning Approaches*
- 2008 – 2010 **M.Tech.** in CSE, Rajabazar Science College (Govt. College) Calcutta University
- 2004 – 2008 **B-Tech.** in CSE, Durgapur Institute Of Advanced Technology & Management(W.B.U.T)

Employment History

- 2013 - 2019 **Assistant Professor**, Durgapur Institute of Advanced Technology & Management(W.B).
- 2011 – 2013 **Assistant Professor** Bhartiya Institute of Engineering & Technology(Rajashthan).
- 2007 – 2008 **Project Trainee** Honeywell Technology Solution Lab(Bangalore).

Research Publications

Journal Articles

- 1 **R. Mehta**, Sheikh-Akbari, and E. Someone, "Ensemble based hybrid transfer learning approach for an effective 2d ear recognition system," *Array(Elsevier)*, (Under review), 2023.
- 2 **R. Mehta**, S. Shukla, and K. K. Singh, "A vision transformer-based automated human identification using ear biometrics" journal of information security and application," *Journal of Information Security and Application*, (Revision Submitted), 2023.
- 3 **R. Mehta** and K. K. Singh, "A novel approach to 2d ear recognition system through ensemble of transfer learning and light-weight convolution neural network," *Neural Computing and Applications (NCAA)*, 2023.
- 4 **R. Mehta** and K. K. Singh, "An efficient ear recognition technique based on deep ensemble learning approach" evolving systems," *Evolving Systems*, 2023. DOI: 10.1007/s12530-023-09505-0.
- 5 **R. Mehta** and K. K. Singh, "Deep convolutional neural network based effective model for 2d ear recognition using data augmentation," *The Imaging Science Journal*, 2023. DOI: 10.1080/13682199.2023.2206763.
- 6 **R. Mehta**, G. Ujjwal, and K. K. Singh, "3d ear recognition using rigid point set registration and coherent point drift algorithm," *The Computer Journal*, (Under review), 2023.
- 7 R. R. Upadhyay, **R. Mehta**, and K. K. Singh, "Multi-dilation convolutional neural network for automatic handwritten signature verification," *SN Computer Science*, 2023. DOI: 10.1007/s42979-023-01931-w.

Conference Proceedings

- 1 **R. Mehta**, A. Sheikh-Akbar, and K. K. Singh, "A noble approach to 2d ear recognition system using hybrid transfer learning," in *12th Mediterranean Conference on Embedded Computing (MECO 2023)*, 2023, Awarded as distinguish paper in DSP 'I&' AI in (MECO2023) IEEE. DOI: 10.1109/MECO58584.2023.10154993.

- 2 **R. Mehta** and K. K. Singh, "2d ear recognition using data augmentation and deep cnn," in *Machine Vision and Augmented Intelligence*, 2023. [DOI: 10.1007/978-981-99-0189-0_36](#).
- 3 **R. Mehta** and K. K. Singh, "A comparative analysis of 2d ear recognition for constrained and unconstrained dataset using deep learning approach," in *Machine Vision and Augmented Intelligence*, 2023. [DOI: 10.1007/978-981-99-0189-0_25](#).
- 4 **R. Mehta** and K. K. Singh, "Ear recognition system using averaging ensemble technique," in *International Conference on Machine Learning, Image Processing, Network Security and Data Sciences.*, 2023. [DOI: 10.1007/978-3-031-24367-7_23](#).
- 5 **R. Mehta** and K. K. Singh, "Rotation invariant 2d ear recognition using gabor filters and ensemble of pre-trained deep convolutional neural network models," in *International Conference on Digital Signal Processing and Its Applications*, 2023, IEEE (DSPA-2023)(Awarded as best paper).
- 6 S. Shilpa, **R. Mehta**, S. Vityazev, and K. K. Singh, "Epileptic seizure prediction using 1d-mobilenet.," in *In 2023 25th International Conference on Digital Signal Processing and its Applications (DSPA)*, 2023, pp. 1-5.
- 7 **R. Mehta**, J. Garain, and K. K. Singh, "Cohort selection using mini-batch k-means clustering for ear recognition," in *Advances in Intelligent Computing and Communication, Lecture Notes in Networks and Systems*, 2022. [DOI: 10.1007/978-981-19-0825-5_29](#).

Skills

- Languages ■ C, C++, Java and Python.
- Subject ■ Operating System, DBMS, AI and Image Processing.
- Misc. ■ Academic research, teaching, training,

Miscellaneous Experience

Awards and Achievements

- 2023 ■ **Distinguish Paper Award**, In 12th Mediterranean Conference on Embedded Computing, IEEE (MECO 2023).
- **Best Paper Award**, International Conference on Digital Signal Processing and Its Applications, IEEE (DSPA-2023).

Personal Details

- Father's Name:** Mr. Uday Prakash Mehta
- Date of Birth:** 7th October 1986
- Nationality:** Indian
- Language known:** English, Hindi and Bengali

References

Dr. Koushendra Kumar Singh (Assistant Professor, Dept. of CSE, NIT Jamshedpur)