

Dr. Suni S S

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Employment History

- 2023 – Till date **Associate Professor and HOD**, Dept of ECE, ICET, Muvattupuzha, Ernakulam.
- 2013 – 2014 **Research Assistant**, Dept of Electronic Science, Pune University.
- 2008 – 2012 **Assistant Professor**, PAACET, Trivandrum.
- 2006 – 2008 **Senior Research Fellow** CEDT, IISc, Bangalore.

Education

- 2017 – 2022 **Ph.D. ECE, Kerala University.**
Thesis title: *A Multimodal Feature Based Gesture Recognition System.*
- 2004 – 2006 **M.Tech. ECE, Kerala University**
Thesis title: *Design of Multirate Antialiasing filter.*
- 2001 – 2004 **B.E. ECE, M.S. University**
Thesis title: *Development of Home Automation System.*
- 1998 – 2001 **Diploma. Electronics, Govt Women's Polytechnic, Thiruvananthapuram**

Research Publications

Journal Articles

- 1 Suni.S.S and K. Gopakumar, "Hand Gesture Recognizing Model Using Optimized Capsule Neural Network," *Traitement du Signal, IETA*, vol. 39, pp. 1030–1050, 2022 (SCIE).
- 2 Suni.S.S and K. Gopakumar, "Extracting Multiple Features for Dynamic Hand Gesture Recognition," *International Journal of Engineering and Advanced Technology (IJEAT), Blue Eyes Intelligence Engineering and Sciences Publication*, vol. 10, pp. 71–79, 2021.
- 3 Suni.S.S and K. Gopakumar, "Extraction of Multimodal features from Depth and RGB images for Recognising Hand Gestures," *Journal of Future Robot Life, IOS Press*, vol. 2, pp. 1–21, 2021.
- 4 S. S. Suni and K. Gopakumar, "Fusing pyramid histogram of gradients and optical flow for hand gesture recognition," *International Journal of Computational Vision and Robotics, Inderscience*, vol. 10, no. 5, pp. 449–464, 2020.
- 5 Suni.S.S and K. Gopakumar, "Dense sift-flow based architecture for recognizing hand gestures," *Advances in Science, Technology and Engineering Systems Journal, ASTES*, vol. 5, pp. 944–954, 2020.

Conference Proceedings



- 1 Suni.S.S and K. Gopakumar, "Fusing multimodal features for recognizing hand gestures," in *Proceedings of International Conference on Advanced Computational and Communication Paradigms (ICACCP)*, 2019, pp. 1–6.
- 2 Suni.S.S and K. Gopakumar, "A real time decision support system using head nod and shake," in *Proceedings of International Conference on Circuit Power and Computing Technologies (ICCPCT)*, 2016, pp. 1–5.

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Suni.S.S and K. Gopakumar, "Human activity recognition using point feature tracking," in *Proceedings of International Conference on Signal and Speech Processing (ICSSP) McGraw Hill*, 2016.

Miscellaneous Experience

Certification/Affiliation

- 2021– Till date  **Reviewer of Advances in Science, Technology and Engineering Systems Journal, ASTES .**
- 2003 June– 2003 August  **Certification.Nest Cyber Campus: Embedded systems.**

Workshops

- 2019  **Training Programme on LaTeX,ICFOSS,Thiruvananthapuram.**
- 2015  **FDP on Computer vision and Video Analysis,TKM College of Engg and Tech,Kollam.**
- 2014  **Programme on Advanced Digital Signal Processing, TKM College of Engg and Tech,Kollam.**
- 2013  **Training Programme on IC Layout and Design,Pune University, Pune.**
- 2009  **Short term training programme on Embedded system design and development, SCT college of Engg,Thiruvananthapuram.**
- 2007  **Workshop on DSP processors and applications, Dept of Optoelectronics,University of Kerala.**

Duties/Responsibilities

- 2023 Mar– Till date  **Head of Department**
- 2023  **Convener,Women Cell**
- 2012  **Coordinator, Exam Cell**

References

Available on Request