Dr. Shilpashree P. S.

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Education

	Degree	Year	Institute	Specialization
1	Ph.D	2023	VTU University	Artificial Intelligence
2	M.Tech	2010	Siddaganga Institute of Technology, Tumkur. VTU University. (Karnataka, India)	Signal Processing
3	B.E.	2005	Channabasaveshwara Institute of Technology, Gubbi. VTU University. (Karnataka, India)	Electronics and Communication

Professional Experience

	Date	Designation	Organization
1	13/08/2007 to 31/12/2010	Lecturer	Siddaganga Institute of Technology
2	01/01/2011 to till date	Assistant Professor	Siddaganga Institute of Technology

(Please fill in reverse order. Current designation should be at the top)

Positions held

(Please give details of any administrative posts, co Ordinator roles/ responsibilities held)

Time table coordinator

Affiliations of Professional organizations

- ISTE membership

Awards and Honors

- Sree Sree Sivakumara Swamiji Gold Medal for securing first rank in M.Tech, Signal Processing program in March 2011.

Courses Taught

Undergraduate Courses

- Digital Image Processing
- Medical Image Processing
- Fundamentals of Digital Image Processing
- Image Processing and Computer Vision
- Artificial Neural Networks
- Introduction to Internet of Things
- Digital Electronic Circuits
- Information Theory and Coding
- Foundation of Electronics Engineering
- Basic Electronics
- Microcontroller
- Fundamentals of HDL
- Signals and Systems
- Computer Communication Networks

Research Areas

- Image processing
- Medical image processing
- Computer vision
- Artificial intelligence

Sponsored Projects

Ongoing Projects:

1. Title: Device for silkworm egg counting and gender seperation
   Funding Agency: DST
   Amount: 5 lac
   Duration: 12 months
   Role: PI

Journals

- Shilpashree, P.S., Ravi, T., Thanuja, M.Y., Anupama, C., Ranganath, S.H., Suresh, K.V. and Srinivas, S.P., 2023. Grading the Severity of Damage to the Perijunctional Actomyosin Ring and Zonula Occludens-1 of the Corneal Endothelium by Ensemble Learning Methods. Journal of Ocular Pharmacology and Therapeutics, 39 (4), pp. 252-274, March 17, 2023. doi: 10.1089/jop.2022.0154
- Shilpashree, P.S., Suresh, K.V., Sudhir, R.R. and Srinivas, S.P., 2021. Automated image segmentation of the corneal endothelium in patients with Fuchs dystrophy. Translational Vision Science & Technology, 10(13), Nov1, 2021. doi: 10.1167/tvst.10.13.27. PMID: 34807254

Conference Proceedings

- Shilpashree P. S, C. V, S. Lagali, R. G. N and C. D, "Automated Disease Detection in Oyster Mushroom Cultivation Using Deep Learning Technique," *2025 3rd International Conference on Smart Systems for applications in Electrical Sciences (ICSSES)*, Tumakuru, India, 2025, pp. 1-5, doi: 10.1109/ICSSES64899.2025.11009558.
- P. S. Shilpashree, G. D. Sampath, H. S. Pavankumaraswamy, B. E. Sagar and S. K. Chaithra, "Classification of Healthy and Diseased Mulberry Leaves using Machine Learning," *2024 International Conference on Smart Systems for applications in Electrical Sciences (ICSSES)*, Tumakuru, India, 2024, pp. 1-5, doi: 10.1109/ICSSES62373.2024.10561414.
- V. A. Aravind et al., "Alzheimer's Disease Detection from MRI Images using Histogram of Oriented Gradients and Support Vector Machine," 2024 International Conference on Smart *Systems for applications in Electrical Sciences (ICSSES)*, Tumakuru, India, 2024, pp. 1-6, doi: 10.1109/ICSSES62373.2024.10561304.
- P. S. Shilpashree, A. G. Karegowda, K. V. Suresh and L. R. A, "Classification of Healthy and Diseased Silkworms using Ensemble Learning and CNN," *2023 International Conference on Smart Systems for applications in Electrical Sciences (ICSSES)*, Tumakuru, India, 2023, pp. 1-5, doi: 10.1109/ICSSES58299.2023.10200374.
- S. S. Goudar, P. S. Shilpashree, D. Shabareswar, N. N. R S Vijay Kumar, S. J. Swaroopa and S. V. Satyanarayana Reddy, "Underwater Surveillance Robot," *2023 International Conference on Smart Systems for applications in*

Electrical Sciences (ICSSES), Tumakuru, India, 2023, pp. 1-6, doi: 10.1109/ICSSES58299.2023.10199676.

- P. S. Shilpashree and K. V. Suresh, "Image resolution improvement: A signal processing approach," *2010 5th International Conference on Industrial and Information Systems*, Mangalore, India, 2010, pp. 297-302, doi: 10.1109/ICIINFS.2010.5578689.