

Dr Vishwanath Madhava Shervegar

Professor in Electronics and Communication Engineering

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Vignesh, M08, Behind Popular Petrol

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Work Experience

02/2025 – present	Professor in Electronics and Communication Engineering Department <i>Moodlakatte Institute of Technology, Kundapura</i> ✎
08/2023 – 08/2024	Associate Professor in Electronics and Communication Engineering Department <i>Moodlakatte Institute of Technology, Kundapura</i> ✎
08/2020 – 08/2023	Associate Professor in Electronics and Communication Engineering Department <i>Mangalore Institute of Technology & Engineering, Moodbidri</i> ✎
07/2013 – 08/2020	Assistant Professor in Electronics and Communication Engineering Department <i>Moodlakatte Institute of Technology, Kundapura</i>
08/2011 – 05/2013	Assistant Professor in Electronics and Communication Engineering Department <i>Canara Engineering College, Mangalore</i> ✎
02/2008 – 08/2011	Lecturer in Electronics and Communication Engineering Department <i>Canara Engineering College, Mangalore</i> ✎

Education

12/2019	Doctor of Philosophy (PhD) in Biomedical Signal Processing <i>Canara Engineering College, Mangalore</i>
07/2008	Master of Technology (MTech) in Digital Electronics and Advanced Communication <i>Manipal Institute of Technology, Manipal</i>
07/2003	Bachelor of Engineering (BE) in Electronics and Communication Engineering <i>Manipal Institute of Technology, Manipal</i>

Skills

Artificial Intelligence

Machine Learning

Python

MATLAB & SIMULINK

Book Chapters

2022	Heart sound classification using Gaussian mixture model <i>B P International Publishers</i> Dr Vishwanath M S, "Heart sound classification using Gaussian mixture model", Current Practice in Medical Science, B P International Publishers, Published, 2022.
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2023 **Sliding Window Adaptive Filter for denoising of PCG Signals**
CRC Press
 Dr Vishwanath M S, Jagadish Nayak, “Sliding Window Adaptive Filter for denoising of PCG Signals”, 5G-Based Smart Hospitals and Healthcare Systems: Evaluation, Integration, and Deployment, CRC Press, Published, 2023.

Professional Affiliation

2023 – Present **Institution of Electrical and Electronics Engineers** 
Senior Member
 Since 2023.

2020 – Present **Indian Society for Technical Education** 
Life Member
 Since 2020.

Thesis

12/2019 **Heart Sound Analysis and Classification**
PhD Thesis, Department of Electronics and Communication Engineering, Canara Engineering College, Mangalore
 Available in Google Books.

07/2008 **Digital Electronic Stethoscope**
MTech Thesis, Department of Electronics and Communication Engineering, Manipal Institute of Technology, Manipal
 Google Scholar Profile: <https://tinyurl.com/Vishwanath-M-S>

Research Publications

01/03/2025 **Elsevier**
 Shervegar, Vishwanath Madhava. ‘Phonocardiogram Classification using Two- Dimensional Discrete Cosine Transform Filter, Wavelet Time Frequency Scattering Transform Features and Discriminant Analysis Classifier’, Informatics & Health, Volume 2, No. 1, March 2025, Pages 49-62, Elsevier, .

01/12/2022 **Wiley Publisher**
 Dr Vishwanath Madhava Shervegar, A robust sliding window adaptive filtering Technique for Phonocardiogram signal denoising, Expert Systems, Wiley Publisher, 1–15. 2023, (SCI and Scopus Indexed Journal).

01/12/2022 **IOS Press**
 Shervegar, Vishwanath Madhava. ‘Heart Sound Classification Using Wavelet Scattering Transform and Support Vector Machine’. Intelligent Data Analysis, IOS Press, 1 Jan. 2023: 1 – 17, (Q3-SCI and Scopus Indexed Journal).

01/12/2021 **IPO**
 Application No. 2021106187, Published in IPO, 2022. Patent No 549155
 Optical Sensing Device for Cardiac Auscultation

01/12/2021 **GIS Science**
 Dr Vishwanath M S, “Phonocardiogram Event-based Delineation Method using Continuous Wavelet Transform”, GIS Science, Vol 9, No. 11, 2022.

01/12/2016 **ELSEVIER Publishers**
 M. Vishwanath Shervegar and Ganesh V Bhat, “Automatic Segmentation of Phonocardiogram using the occurrence of the cardiac events”, Informatics in Medicine Unlocked, Vol 9C 2017, pp 6-10, ELSEVIER Publishers (Q2-Scopus Indexed Journal).

WOLTERS KLUWER Publishers

M. Vishwanath Shervegar and Ganesh V Bhat, "Classification of heart sounds using Gaussian Mixture Model", Porto Biomedical Journal, WOLTERS KLUWER Publishers (PubMed Indexed Journal).

INDERSCIENCE Publishers

M. Vishwanath Shervegar and Ganesh V Bhat, "De-noising of Phonocardiogram using Time Frequency Block Thresholding Method", International Journal of Biomedical Engineering and Technology, INDERSCIENCE Publishers (Q3-Web of Science & Scopus Indexed Journal).

Google Scholar Indexed

M. Vishwanath Shervegar and Ganesh V Bhat, "Phonocardiography–the future of cardiac auscultation", International Journal of Scientific & Engineering Research 2 (10), 1-12 Google Scholar Indexed.

Department Responsibilities

Chairman, Curriculum Committee

Placement Coordinator

Internship Coordinator

Research Area

Biomedical Signal Processing

Machine Learning Techniques

Biomedical Instrumentation

Reviewer in International Journals

Journal of Sensors and Actuators-Physical A-Elsevier

Journal of Biocybernetics and Biomedical Engineering-Elsevier

Journal of Bionic Engineering- Springer

Journal of Informatics in Medicine Unlocked - Elsevier

Technical Programme Committee Member

08/2019 – 08/2019	IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (2019 IEEE DISCOVER) <i>Manipal Institute of Technology, Manipal</i>
11/2021 – 11/2021	IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (2021 IEEE DISCOVER) <i>NMAMIT, Nitte</i>
10/2022 – 10/2022	IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (2022 IEEE DISCOVER) <i>JNNCE, Shivamogga</i>
11/2023 – 11/2023	International Conference on Recent Advances in Information Technology for Sustainable Development (2023 ICRAIS) <i>Manipal Institute of Technology, Manipal</i>

Workshop Organised

11/2022 – 11/2022 **IEEE Sponsored hands-on Workshop on Signal and Image Processing using Python**
Mangalore Institute of Technology & Engineering, Moodbidri
Sponsored by IEEE Mangalore Subsection.

Workshop/ FDP attended

12/2022 – 12/2022 **Three Days Faculty Development Program On Computational Mathematics with MATLAB**
Mangalore Institute of Technology & Engineering, Moodbidri

10/2020 – 10/2020 **A Workshop Co-hosted by Binghamton University, IIT Madras and IIT Ropar on Next Generation Electronic Systems: Heterogeneous Integration, Thermal and Power Management, Related Machine Learning**
MITE Moodbidri (Online)

06/2019 – 06/2019 **AICTE Sponsored FDP for Student Induction**
SCEM Mangalore

09/2017 **One Day FDP on Circuit Simulation/ PCB design using Target 3001 Software by Dell Soft Technologies**
MIT Kundapura

Personal Information

Father's Name

Late K. Madhava Shervegar

Religion

Hindu

Cast

Kote Kshatriya

Permanent Address

"Vignesh", M9, Behind Popular petrol pump, Hanumanth Nagar, Puttur, Udupi, Karnataka PIN-576103