

Dr Bodile Roshan Mukindrao

Designation: Assistant Professor (Grade-II)

Department: ECE

Qualifications:

Ph.D. Biomedical Signal Processing(NIT Warangal)

M.E. ECE(Prof. Ram Meghe Institute of Technology & Research, Badnera-Amravati)

B.E. ECE(Shri Sant Gajanan Maharaj College of Engineering Shegaon)

Email: mukindraobr@nitj.ac.in

Research Interests

Biomedical Signal Processing, ECG/EEG Denoising, Source localization, Heart and Brain Diseases, Optimization Techniques, Machine Learning.

Other Profile Links

Google Scholar Link: [Link](#)

Personal Link: [Link](#)

Journal Publications

Year	Author + Title	Name of Journal	Link
2023	Shoba Sivapatham , Asutosh Kar , Roshan Bodile , Vladimir Mladenovic , Pitikhate Sooraksa, A deep neural network-correlation phase sensitive mask based estimation to improve speech intelligibility	Applied Acoustics	Link
2021	Bodile, R.M., Rao, T.V.K.H. Improved complete ensemble empirical mode decomposition with adaptive noise: quasi-oppositional Jaya hybrid algorithm for ECG denoising	Analog Integr Circ Sig Process, 109, 467–477	Link
2021	Roshan Bodile and T. V. K. Hanumantha Rao, Adaptive Filtering of Electrocardiogram Signal Using Hybrid Empirical Mode Decomposition-Jaya algorithm	Journal of Circuits, Systems and Computers, Vol. 30, No. 12, 2150209	Link
2021	Roshan M. Bodile and Venkata K.H.R. Talari, Removal of Power-Line Interference from ECG Using Decomposition Method-		Link

	ologies and Kalman Filter Framework: A Comparative Study	Traitement du Signal Vol. 38, No. 3, pp. 875-881	
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Conference Publications

Year	Publication	Conference	Link
2024	Diagnosis of Clustered Microcalcifications in Breast Cancer Using Mammo-grams	Springer	Link
2022	A Comprehensive Review on Agriculture-Based Pesticide Spraying Robot	Springer	Link
2020	ECG Denoising using Cubature Kalman Filter Framework	IEEE	Link
2020	ECG Denoising Using Cubature Quadrature Kalman Filter Approach	IEEE	Link
2020	ANN based Scaling of Rainfall Data for Urban Flood Simulations	IEEE	Link

Book/Chapter Publications

Type	Authors	Title	Publisher	ISBN/ISSN	Year
Book Chapter	Priyanka Gautam, Manjeet Singh, and Bodile Roshan	Machine Learning-Based Arrhythmia Classification: A Comprehensive Review	IGI Global	9781668483374	2023
Book Chapter	Bodile, R.M., Hanumantha Rao, T.V.K	Cancellation of 50 and 60 Hz Power-Line Interference from Electrocardiogram Using Square-Root Cubature Kalman Filter	Springer	978-981-33-6862-0	2021

Events Organized

Cate-gory	Type	Title	Venue	From	To	Designa-tion
STC	Self Spon-sered	Biosignals ,Communica-tion and Applications	Dr B R Ambedkar NIT Jalandhar	12/06/2023	16/06/2023	Coordinator
Conference		3rd International	Dr B R Ambedkar	22/12/23	23/12/23	

	Self sponsored	Conference on Computational Electronics for Wireless Communications	National Institute of Technology Jaalandhar			Joint organizing Secretary
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Professional Affiliations

Designation	Organisation
Member	IEEE
Editorial Member	Traitement du signal
Editorial Member	Ingénierie des Systèmes d'Information
Editorial Member	Biomedical Statistics and Informatics
Reviewer	Australasian Physical and Engineering Sciences in Medicine
Reviewer	Scientific report
Reviewer	Analog Integrated Circuits and Signal Processing
Reviewer	Physiological Measurement
Reviewer	Journal of Mechanics in Medicine and Biology
Reviewer	Traitement du Signal
Reviewer	Biomedical Physics & Engineering Express
Reviewer	Ingénierie des Systèmes d'Information
Reviewer	Multiscale and Multidisciplinary Modeling, Experiments and Design
Reviewer	RECENT ADVANCES IN ELECTRICAL & ELECTRONIC ENGINEERING

PhD Supervised

Scholar Name	Research Topic	Status	Year	Co-Supervisor
Amit Dolas	Biomedical	Ongoing	2023	Dr Rohit Singh
Kalam Kishor	Biomedical	Ongoing	2023	Dr Rohit Singh

PG Dissertation Guided

Student Name	Dissertation Title	Status	Year	Co-Supervisor
Suvrojit Mitra	Fatigue detection	Ongoing	2023	Dr Rohit Singh

Admin. Responsibilities

Position Held	Organization	From	To
Member (Convener)	promotion, publicizing & highlighting the academic activities and other achievements related to UG (NIT Jalandhar)	22/02/2023	Till date
Member	IIC (Innovation)	24/04/2023	Till date
Co-coordinator	IQAC	08/05/2023	Till date
Coordinator	PMKVY 4.0	20/02/2023	Till date
Coordinator	MSME	20/02/2023	Till date

Award and Honours

Title	Activity	Given by	Year
IEEE best paper award	Conference	2020 IEEE Bangalore Humanitarian Technology Conference (BHTC), Vijjiya-pur, India.	2020