

## **Research and Development by the Faculty Members**

- 1. SCI, ESCI, SCOPUS Journals**
- 2. SCOPUS Conferences**
- 3. Books/Book Chapters**

## Faculty Publications in SCI, ESCI, Scopus Indexed Journals,

### Conferences and Book/Book Chapters

<b>A.Y. 2023-24 Journal Publications</b>				
Sr. No.	Name of Faculty	Title	Volume/Issue ISSN No/DOI	Name of the Journal
1	Dr. Rahul Mapari	A versatile methodology for preventing a parallel transmission system using impedance-based techniques	Vol. 12, Issue 5, Page 2577–2585 ISSN:2089-3191E- ISSN:2302-9285	Bulletin of Electrical Engineering and Informatics
2	Dr. Rahul Mapari	Performance analysis of FOC space vector modulation DCMLI driven PMSM drive	Vol. 12, Issue 5, Page 2682–2692 ISSN:2089-3191E- ISSN:2302-9285	Bulletin of Electrical Engineering and Informatics
3	Dr. Dipali Shende	Performance evaluation and comparative analysis of CrowWhale-energy and trust aware multicast routing algorithm	Volume 21, Issue ,3,Pages 271–291 DOI:10.3233/WEB -220063	Web Intelligence
4	Kiran Napte	Automatic Liver Cancer Detection Using Deep Convolution Neural Network	Volume 11,pp. 94852–94862 Electronic ISSN: 2169-3536	IEEE Access
5	Kiran Napte	ESP-UNet: Encoder-Decoder Convolutional Neural Network with Edge-Enhanced Features for Liver Segmentation	Vol. 40, No. 5 pp. 2275-2281 ISSN: 0765-0019	Traitement du Signal
6	Kiran Napte	Liver segmentation using marker controlled watershed transform	Vol 13, No 2, pp 1541-1549 ISSN: 2088-8708	International Journal of Electrical and Computer Engineering
7	Kishor Bhangale	Speech Emotion Recognition Based on Multiple Acoustic Features and Deep Convolutional Neural Network	Vol. 12, No. 4 ; <a href="https://doi.org/10.3390/electronics12040839">https://doi.org/10.3390/electronics12040839</a>	Electronics, MDPI
8	Kishor Bhangale	Speech emotion recognition using	Vol. 212	Applied

		the novel PEmoNet (Parallel Emotion Network)	<a href="https://doi.org/10.1016/j.apacoust.2023.109613">https://doi.org/10.1016/j.apacoust.2023.109613</a>	Acoustics, Elsevier
9	Rupali Kawade	Comprehensive Study of Automatic Speech Emotion Recognition Systems	ISSN: 2321-8169 Volume: 11 Issue: 9s DOI: <a href="https://doi.org/10.17762/ijritcc.v11i9s.7743">https://doi.org/10.17762/ijritcc.v11i9s.7743</a>	International Journal on Recent and Innovation Trends in Computing and Communication
10	Dipali Dhake	A Comparative Analysis of EEG-based Stress Detection Utilizing Machine Learning and Deep Learning Classifiers with a Critical Literature Review	ISSN: 2321-8169 Vol. 11 No. 8s (2023) <a href="https://doi.org/10.17762/ijritcc.v11i8s.7175">https://doi.org/10.17762/ijritcc.v11i8s.7175</a>	International Journal on Recent and Innovation Trends in Computing and Communication
11	Rupali Kawade	Optimal Trained Ensemble of Classification Model for Speech Emotion Recognition: Considering Cross-lingual and Multi-lingual Scenarios	Accepted for publication	Multimedia Tools and Applications
12	Triveni Dhamale	Fusion of Features: A Technique to Improve Autism Spectrum Disorder Detection Using Brain MRI Images	Vol- 16 Issue 4, ISSN:0974-6242	Biomedical and pharmacological journal
13	Triveni Dhamale	Dielectric Modulated Organic TFT Trench Biosensor for Label Free Detection: Modeling and Simulation Analysis	Accepted for publication	International Journal of Numerical Modelling: Electronic Networks, Devices and Fields
14	Triveni Dhamale	Autism Spectrum Disorder	Accepted for	Traitement du

		Detection Using Parallel Deep Convolution Neural Network	publication	Signal
15	Kishor Bhangale	Speech Emotion Recognition Using Generative Adversarial Network and Deep Convolutional Neural Network	DOI: <a href="https://doi.org/10.1007/s00034-023-02562-5">https://doi.org/10.1007/s00034-023-02562-5</a> ISSN: 0278-081X	Circuits, Systems, and Signal Processing

### A.Y 2023-24 International Conferences

Sr. No.	Name of Faculty	Title	Name of the Conference	Venue
1	Dipali Dhake	LSTM Algorithm for the Detection of Mental Stress in EEG	2023 3rd International Conference on Intelligent Technologies (CONIT) Karnataka, India.	Karnataka, India.
2	Dr. Pallavi Adke	Enlighten GAN for super-resolution images from surveillance car	4th International Conference on Cognitive Computing and Cyber Physical Systems 2023 (IC4S 2023)	Vishnu Institute of Technology, Bhimavaram, India in Hybrid Mode
3	Dr. Pallavi Adke	Use of Improved Generative Adversarial Network (GAN) under insufficient data	4th International Conference on Cognitive Computing and Cyber Physical Systems 2023 (IC4S 2023)	Vishnu Institute of Technology, Bhimavaram, India in Hybrid Mode
4	Kishor Bhangale	Deep Learning-based Analysis of Affective Computing for Marathi Corpus	2023 3rd International Conference on Intelligent Technologies (CONIT)	Karnataka, India.
5	Kishor Bhangale	IOT Based Automation of Pre-treatment Plant for Surface	2023 5th International	NIT, Meghalaya

		Coating with Multiple Batch System	Conference on Energy, Power and Environment: Towards Flexible Green Energy Technologies (ICEPE)	
6	Kishor Bhangale	Analysis of Affective Computing for Marathi Corpus using Deep Learning	2023 4th International Conference for Emerging Technology (INCET)	Jain College of Engineering, Hunchyanatti Cross,, Belgaum, Karnataka
7	Maithili Andhare, Kishor Bhangale,	IoT-Enabled RFID-Based Library Management and Automatic Book Recommendation System Using Collaborative Learning	3rd International Conference on Sentiment Analysis and Deep Learning (ICSADL 2022)	Tribhuvan University, Nepal
8	Triveni Dhamale	Generative Adversarial Network based Brain MRI Data Augmentation	7th International Conference on Computing, Communication, Control and Automation (ICCUBEA-2023)	PCCOE, Pune, India
9	Arti Tekade	An Overview of Forensic Human Identification Using Biometric Radiographs: A Systematic Literature Review	International Conference on Advanced Engineering, Sciences & Management'23 (ICAESM'23)	Chennai, India
<b>A.Y 2023-24 Books and Book Chapter</b>				
<b>Sr. No.</b>	<b>Name of Faculty</b>	<b>Title</b>	<b>Name of the Conference/ISBN</b>	<b>Name of the Proceeding</b>

1	Dipali Dhake	EEG features selection by using Tasmanian Devil Optimization Algorithm for Stress Detection	International Conference on Evolutionary Artificial Intelligence [ICEAI 2023]	Artificial Evolutionary
2	Vijayalaxmi Kumbhar	Control Systems	ISBN : 978-93-5757-392-4	Scientific International Publishing House (SIPH)
3	Santosh Randive	(MS)2EDNet: Multiscale Motion Saliency Deep Network for Moving Object Detection	International Conference on Computer Vision and Image Processing	Communications in Computer and Information Science book series (CCIS, volume 1568)
4	Santosh Randive	Humanoid Robot - Spark	International Conference on Computer Vision and Image Processing	Communications in Computer and Information Science book series (CCIS, volume 1568)

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Sr. No.	Name of Faculty	Title	Volume/Issue ISSN No/DOI	Name of the Journal
1	Dr. Rahul Mapari	Pulse charging based intelligent battery management system for electric vehicle	Vol. 12, Issue 4, Page 1388-1396 ISSN:2089-3191E- ISSN:2302-9285	Bulletin of Electrical Engineering and Informatics
2	Dr. Rahul Mapari	A novel pulse charger with intelligent battery management system for fast charging of electric vehicle	Vol. 12, Issue 3, Page 1388-1396 ISSN:2089-3191E- ISSN:2302-9285	Bulletin of Electrical Engineering and Informatics
3	Dr. Dipali Shende	An Iterative CrowWhale-Based Optimization Model for Energy-	Vol. 16, Issue 1, Page 1-	International Journal of

		Aware Multicast Routing in IoT	24DOI:10.4018/IJIS SP.300317	Information Security and Privacy
4	Dr. Dipali Shende	Sewage Water Management and Healthcare Monitoring in IoT using Optimized Deep Residual Network	ISSN: 0952-813X	Journal of Experimental & Theoretical Artificial
5	Kiran Napte	Deep Learning based Liver Segmentation: A Review	Vol. 36, No. 6, PP 979-984 doi.org/10.18280/ria.360620	Revue d'Intelligence Artificielle
6	Kishor Bhangale	Survey of Deep Learning Paradigms for Speech Processing	Vol. 125 <a href="https://doi.org/10.1007/s11277-022-09640-y">https://doi.org/10.1007/s11277-022-09640-y</a>	Wireless Personal Communication
7	Dr. Pallavi Adke	Plant Leaf Disease Detection and Smart Spraying Robot using Artificial Intelligence for Precision Agriculture	Volume 10 Issue V PP 5181-5187 ISSN: 2321-9653	International Journal for Research in Applied Science & Engineering Technology
8	Maithili Andhare	Design and implementation of wireless sensor network for environmental monitoring	Issue 3 DOI:10.53730/ijhs.v6ns4.9085	International Journal of Health Sciences
9	Vijayalaxmi Kumbhar	A Comparative Analysis of FinFET Based SRAM Design	Volume 10 Issue 4 <a href="https://ijeer.forexjournal.co.in/papers-pdf/ijeer-100468.pdf">https://ijeer.forexjournal.co.in/papers-pdf/ijeer-100468.pdf</a>	International Journal of Electrical and Electronics Research (IJEER)
10	Vijaya Yaduvanshi	Automatic Oral Cancer Detection & Classification using Modified Local Texture Descriptor & Machine Learning Algorithms	Vol. 12, Issue 4, Page 1388-1396 ISSN:2089-3191 E-ISSN:2302-9285	Multimedia Tools & Applications
11	Mrs. Arti Tekade	Machine learning-based smart assistive robot for elderly people	Volume-12-Issue-5, ISSN Number :	Mukt Shabd Journal

			2347-3150	
A.Y. 2022-23 International Conferences				
Sr. No.	Name of Faculty	Title	Name of the Conference	Venue
1	Vijayalaxmi Kumbhar	Performance Analysis of FinFET-Based Static Random Access Memory Design	2022 International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON)	Bangalore, India
2	Vijayalaxmi Kumbhar	Design of Ultra Low Power, Area Efficient Ring Counter Based SAR ADC	2023 3rd International Conference on Intelligent Technologies (CONIT)	Hubli, India
3	Maithili Andhare	Detecting Cybersecurity Attacks in Industrial Internet of Things: A Systematic Literature Review	2023 5th Biennial International Conference on Nascent Technologies in Engineering (ICNTE)	Navi Mumbai, India
4	Dr. Pallavi Adke	IoT Based Fall Detection System	6th International Conference On Computing, Communication, Control And Automation (ICCUBEA)	PCCOE, Pune
5	Kishor Bhangale	IOT Based Landslide Detection in Hilly Area	2022 6th International Conference On Computing, Communication, Control And Automation	PCCOE, Pune



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6	Kishor Bhangale	Cross Technology Communication between LTE-U and Wi-Fi to Improve Overall QoS of 5G System	2022 6th International Conference On Computing, Communication, Control And Automation (ICCUBEA)	PCCOE, Pune
7	Kishor Bhangale	Neural Style Transfer: Reliving art through Artificial Intelligence	2022 3rd International Conference for Emerging Technology (INCET)	Belgaum, India
8	Rupali Kawade	Speech Emotion Recognition Using 1D CNN-LSTM Network on Indo-Aryan Database	2022 Third International Conference on Intelligent Computing Instrumentation and Control Technologies (ICICICT)	Kannur, India
9	Arti Tekade	Create a 32-bit Vedic Multiplier and Compare it Against Other Multipliers Using A Carry Look-Ahead Adder	2023 4th International Conference for Emerging Technology (INCET)	Belgaum, India
<b>A.Y. 2022-23 Books and Book Chapter</b>				
<b>Sr. No.</b>	<b>Name of Faculty</b>	<b>Title</b>	<b>Name of the Conference</b>	<b>Name of the Proceeding</b>

1	Triveni Dhamale	Recent Trends in Automatic Autism Spectrum Disorder Detection Using Brain MRI	Proceedings of Third International Conference on Sustainable Expert Systems	Lecture Notes in Networks and Systems book series (LNNS, volume 587)
2	Rupali Kawade	FPGA-Based Automatic Speech Emotion Recognition Using Deep Learning Algorithm	Artificial Intelligence Applications and Reconfigurable Architectures	Wiley Online Library

### A.Y. 2021-22 Journal Publications

Sr. No.	Name of Faculty	Title	Volume/Issue ISSN No/DOI	Name of the Journal
1	Kiran Napte	Liver Segmentation and Liver Cancer Detection Based on Deep Convolutional Neural Network: A Brief Bibliometric Survey	ISSN 1522-0222	Library Philosophy and Practice (e-journal)
2	Kishor Bhangale	A review on speech processing using machine learning paradigm	Vol.24, <a href="https://doi.org/10.1007/s10772-021-09808-0">https://doi.org/10.1007/s10772-021-09808-0</a>	International Journal of Speech Technology
3	V.S. Kumbhar	Hybrid artificial neural network algorithm for air pollution estimation	Vol. 6, <a href="https://doi.org/10.53730/ijhs.v6n55.9080">https://doi.org/10.53730/ijhs.v6n55.9080</a>	International Journal of Health Sciences

### A.Y. 2021-22 International Conferences

Sr. No.	Name of Faculty	Title	Name of the Conference	Venue
1	Dipali Dhake	EEG Signal Enhancement using Wavelet based Soft-thresholding Approach	IEEE 2022 3rd International Conference for Emerging Technology (INCET)	Taylor's University Lakeside Campus Malaysia.
2	Maithili Andhare	Deployment of Real-Time Energy Monitoring System Using IoT	2022 3rd International	Belgaum, India

			Conference for Emerging Technology (INCET)	
3	Kishor Bhangale	Design and Simulation of UWB Antenna for 4G Applications	Sustainable Communication Networks and Application: Proceedings of ICSCN 2021	Shree Venkateshwar a Hi-Tech Engineering, Erode, Tamil Nadu, India
4	Kishor Bhangale	Multi-view Multi-pose Robust Face Recognition Based on VGGNet	Second International Conference on Image Processing and Capsule Networks	Tribhuvan University (Pulchowk Campus), Lalitpur, Nepal

**A.Y. 2021-22 Books and Book Chapter**

<b>Sr. No.</b>	<b>Name of Faculty</b>	<b>Title</b>	<b>Name of the Conference</b>	<b>Name of the Proceeding</b>
1	Kishor Bhangale	Speech Emotion Recognition Using Mel Frequency Log Spectrogram and Deep Convolutional Neural Network	International Conference on Futuristic Communication and Network Technologies	Lecture Notes in Electrical Engineering book series (LNEE, volume 792)
2	Vijayalaxmi Kumbhar	IoT-Enabled RFID-Based Library Management and Automatic Book Recommendation System Using Collaborative Learning	2nd International Conference Sentiment Analysis and Deep Learning (ICSADL 2022)	Advances in Intelligent Systems and Computing book series (AISC, volume 1432)
3	Vijayalaxmi Kumbhar	Design and Technology Co-optimization for Investigating Power, Performance, Area and Cost Trade-Offs in FinFET Technologies	4th International Conference on Communications and Cyber Physical Engineering ICCCE 2021	Lecture Notes in Electrical Engineering book series (LNEE, volume 828)
4	Rupali Kawade	Speech Emotion Recognition	4th International	Lecture Notes

		Based on Wavelet Packet Coefficients	Conference on Communications and Cyber Physical Engineering ICCCE 2021	in Electrical Engineering book series (LNEE, volume 828)
5	Triveni Dhamale	On the Evaluation and Implementation of LSTM Model for Speech Emotion Recognition Using MFCC	International Conference on Computational Intelligence and Data Engineering 2021	Lecture Notes on Data Engineering and Communications Technologies book series (LNDECT, volume 99)
6	Arti Tekade	Object Detection systems for Visually impaired person : Implementation using YOLO algorithm	ASIN: B09YRPPJQC	Amazon Kindle Edition

  
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