

Pallavi Pandurang Ingale

Ph.D. in Electronics and Telecommunication Engineering

RESEARCH INTERESTS

- Speech Processing, Communication Engineering

PROFESSIONAL EXPERIENCE

- Assistant Professor
 - Dr. Babasaheb Ambedkar Technological University, Lonere.

ACADEMIC DETAILS

- Ph.D. in Electronics and Telecommunication Engineering, Sept-2020
 - Dr. Babasaheb Ambedkar Technological University, Lonere.
 - Research Topic: An Information Extraction Approach to Acoustic Signal Processing: Analysis, Segregation and Detection
 - Research Guide: Dr. S. L. Nalbalwar
- M.Tech. in Electronics and Telecommunication Engineering, July 2010 - Aug 2012
 - Dr. Babasaheb Ambedkar Technological University, Lonere
 - CGPA: 8.94

PUBLICATIONS

- Journals
 1. Ingale P. P. and Nalbalwar S. L., "Deep neural network based speech enhancement using mono channel mask", *Springer International Journal of Speech Technology*, Volume 22, Issue 3, 2019, pp. 841–850
 2. Ingale P. P. and Nalbalwar S. L., "Singing voice separation using mono-channel mask", *Springer International Journal of Speech Technology*, Volume 21, Issue 2, 2018, pp. 309-318
 3. Puri, D. V., Nalbalwar S. L. and Ingale P. P. "EEG-Based Systematic Explainable Alzheimer's Disease and Mild Cognitive Impairment Identification Using Novel Rational Dyadic Biorthogonal Wavelet Filter Banks" *Circuits, Systems, and Signal Processing*, 2023, pp. 1-31.
 4. Ingale P. P. and Nalbalwar S. L., "Detection of speaker identities from cochannel speech signal", *WSEAS Transactions on Signal Processing*, volume 14, 2018, pp. 43-49
 5. Ingale P. P. and Nalbalwar S. L., "Novel approach to text independent speaker identification", *International Journal of Electronics and Communication Engineering and Technology*, Volume 3, Issue 2, 2012, pp. 87-93
- Conferences
 1. Ingale P. P. and Nalbalwar S. L., "Cochannel speech segregation with sparse coding", *Proc. IEEE Int. Conf. on Electrical, Electronics, and Optimization Techniques*. Mar. 2016, pp. 4589-4589
 2. Ingale P. P. and Nalbalwar S. L., "A review on cochannel speech segregation", *Proc. National Conference on Computer, Electrical and Electronics Engineering*, April 2016
 3. Gaikwad S.S., Ingale P. P. and Nalbalwar S. L., "Separation of singing voice from background musical noise using modified NMF and filtering", *Proc. IEEE Int. Conf. on Electrical, Electronics, and Optimization Techniques*. Mar. 2016, pp. 1565-1568
 4. Ingale P. P. and Nalbalwar S. L., "Feature set extracted using frequency-time analysis approach for text independent speaker recognition", *Proc. International Conference on Electronics Computer Technology*, April 2012

NPTEL/SWAYAM ONLINE CERTIFICATION

1. Principles of Modern CDMA MIMO OFDM Wireless Communications, Aug-Oct 2021(08 week course): Passed with Elite+Gold grade with 90%

2. Applied linear algebra for signal processing, data analytics and machine learning, Jan-Apr 2021(12 week course): Passed with Elite+Gold grade with 91%
3. Principles of signal estimation for MIMO-OFDM wireless communication, Sept-Dec 2020(12 week course): Passed with Elite+Silver grade with 85%
4. Introduction to machine learning, Jan-April 2020(12 week course): Passed with 59%
5. Principles of communication engineering-II, Aug-Oct 2019(08 week course): Passed with Elite+Silver grade with 88%
6. Principles of communication engineering-I, Jan-April 2019(12 week course): Passed with Elite+Silver grade with 85%
7. Multirate DSP, Jan-April 2019(12 week course): Passed with Elite+Silver grade with 78%
8. Introduction to coding theory, Jan-Mar 2019(08 week course): Passed with Elite grade with 72%, counted in Toppers for the course
9. Digital circuits, Jul-Oct 2018(12 week course): Passed with Elite grade with 82%, counted in Toppers for the course
10. Discrete time signal processing, Jul-Sept 2018(08 week course): Passed with Elite grade with 81%, counted in Toppers for the course
11. Principles of signals and systems, Jan-Apr 2018(12 week course): Passed with Elite grade with 63%
12. Networks and systems, Jul-Oct 2017(12 week course): Passed with Elite grade with 69%

TECHNICAL SKILLS

- **Languages** : C, Python **Tools**: MATLAB, L^AT_EX

AWARDS

1. NPTEL/SWAYAM Domain Certification in Communication and Signal Processing(Electrical Engineering) in Dec 2020.
2. NPTEL/SWAYAM Discipline Star in Electrical Engineering in Dec 2019.
3. Young researcher award in IETE National Conference on Computer, Electrical and Electronics Engineering, March 2016 held in Dr. BATU at Lonere.