

Faculty Profile



Name: Dr. N. Prasad

Designation: Assistant Professor

Teaching Areas: Signals & Systems, Speech Processing, Image Processing, Linear integrated circuits and applications, Digital Logic Design, Analog and Digital communications

Research Interests: Speech bandwidth extension, Speech Enhancement, Adaptive digital Signal Processing and Telephony Speech Enhancement using data hiding

Education:

- Ph.D. in Electronics and Communication Engineering, NIT Warangal, 2018.
- M. Tech in Electronics and Communication Engineering, NIT Warangal, 2009.
- B. E in Electronics and Communication Engineering, Andhra University, 2006.

Research / Selected Publications: 18 (Scopus and WoS)

1. N. Prasad & T. Kishore Kumar, "Bandwidth extension of telephone speech using magnitude spectrum data hiding", **International Journal of Speech Technology**, Vol. 20, No: 1, pp. 151-162, March 2017. (**Springer, SCI Journal**)
2. N. Prasad & T. Kishore Kumar, "Bandwidth extension of narrowband speech using integer wavelet transform", **IET Signal Processing**, Vol. 11, No. 4, pp. 437-445, June 2017 (**IEEE, SCI Journal**)
3. N. Prasad & T. Kishore Kumar, "Speech bandwidth extension aided by magnitude spectrum data hiding", **Circuits, Systems and signal processing**, Vol. 36, No. 11, pp. 4512-4540, June 2017. (**Springer, SCI Journal**)
4. N. Prasad & G.R.L.V.N.S. Raju. "Transform-Domain Speech Bandwidth Extension", **Circuits, Systems & Signal Processing**, Vol. 38, pp. 5717–5733, May 2019. (**Springer, SCI Journal**)
6. N. Prasad, E. Praveen Kumar, P. Sitaramanjaneyulu & G. R. L. V. N. Srinivasa Raju, "Telephony Speech Enhancement for Hearing-Impaired People," **5th IEEE International Conference on Computing, Communication and Security**, 14-16 Oct. 2020, pp.1-4.
7. R. P. Kumar Emani, P. Telagathoti and N. Prasad, "**Performance Assessment of Simulink Based Speech Radio Band Extension Technique on Elderly People**," **2022 International Conference on Inventive Computation Technologies (ICICT)**, 2022, pp. 800-804.

Funded Projects: Successfully completed one **Department of Science & Technology (DST)** sponsored project entitled "**Development and Implementation of Telephony Speech Enhancement Algorithms Using Data Hiding Techniques for Hearing-Impaired People**"

Reviewer: International Journal of Speech Technology and Circuits, Systems and signal processing