Aravind Illa

Banglore, India

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EDUCATION

Indian Institute of Science, Bengaluru, Karnataka, India.

- Ph.D. (Pursuing), in Electrical Engineering   Jan 2015 – Present
  - Adviser: Dr. Prasanta Kumar Ghosh
  - Area of Research: Speech Processing, Signal Processing, Machine Learning.
  - Cumulative GPA: 8.1 / 10.0

National Institute of Technology, Calicut, Kerala, India

- M.Tech. in Signal Processing   Aug 2012 – May 2014
  - Cumulative GPA: 8.01 / 10.00

Andhra university, Vishakapatnam, Andhra Pradesh, India

- B.Tech. in Electronics and Communication Engineering   Aug 2008 – May 2012
  - Cumulative GPA: 8.43 / 10.00

PUBLICATIONS

JOURNALS

[1] Pattem Ashok Kumar, Aravind Illa, Amber Afshan and Prasanta Kumar Ghosh, "Optimal sensor placement in electromagnetic articulography recording for speech production study," *In Computer Speech & Language*, vol. 47, pp. 157–174, Jan 2018.

CONFERENCES

[1] Aravind Illa, Prasanta Kumar Ghosh "Representation learning using convolution neural network for Acoustic-to-articulatory inversion," accepted in *IEEE International Conference on In Acoustics, Speech and Signal Processing (ICASSP)*. May 2019.

[2] Gokul Srinivasan, Aravind Illa, Prasanta Kumar Ghosh "A study on robustness of articulatory features for automatic speech recognition of neutral and whispered speech," accepted in *IEEE International Conference on In Acoustics, Speech and Signal Processing (ICASSP)*. May 2019.

[3] Aravind Illa, Prasanta Kumar Ghosh "Low resource acoustic-to-articulatory inversion using bi-directional long short term memory," Proc. of *Interspeech*, pp. 3122–3126. Sep 2018.

[4] Aravind Illa, Prasanta Kumar Ghosh "Inferring speaker identity from articulatory motion during speech," Proc. of Workshop on *Machine Learning in Speech and Language Processing (MLSLP)*. Sep 2018.

[5] Aravind Illa, Deep Patel, BK Yamini, Meera SS, Shivashankar N, Preethish-Kumar Veeramani, Seena Vengaliz, Kiran Polavarapu, Saraswati Nashi, Atchayaram Nalini, Prasanta Kumar Ghosh "Comparison of speech tasks for automatic classification of patients with amyotrophic lateral sclerosis and healthy subjects," accepted in *IEEE International Conference on In Acoustics, Speech and Signal Processing (ICASSP)*, Apr 2018.

[6] Aravind Illa, Nisha Meenakshi G and Prasanta Kumar Ghosh "A Comparative Study of Acoustic-to-articulatory inversion for Neutral and Whispered Speech," in *IEEE International Conference on In Acoustics, Speech and Signal Processing (ICASSP)*, pp. 5075-5079, Mar 2017.

PROFESSIONAL AFFILIATIONS & ACTIVITIES

ISCA, **IEEE Signal Processing Society**,

- Student Member   2017 – Present

Winter School on Speech and Audio Processing (WiSSAP),

- Student Volunteer   2017

International conference on Signal Processing and Communications (SPCOM),

- Student Volunteer   2016

SKILLS

Python,
Tensor-flow, PyTorch,
MATLAB,
Kaldi, HTK, Shell scripting.

ACADEMIC EXPERIENCE

Indian Institute of Science, Bengaluru, Karnataka, India.

- Teaching Assistant, Electrical Engineering,   Aug 2017 – Dec 2017
  - E9:205 Machine Learning for Signal Processing

GITAM University , Hyderabad Campus, Telangana, INDIA.

- Assistant Professor, Electronics and Communication Engineering,   Aug 2014 – Dec 2014

REFERENCES

- **Dr. Prasanta Kumar Ghosh**
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  Indian Institute of Science,
  Bangalore, Karnataka, 560012, India.
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