Ashutosh Pandey

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The Ohio State University
Columbus, OH 43210, USA

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RESEARCH INTERESTS	Speech enhancement and separation, speech dereverberation, speaker separation, deep learning

EDUCATION

Ph.D. student, Computer Science and Engineering   August 2016 - Present
The Ohio State University (OSU), Columbus, OH, USA
Advisor: Prof. DeLiang Wang
GPA: 4.0/4.0

B.Tech, Electronics and Communication Engineering   August 2011 - June 2015
Indian Institute of Technology Guwahati, Guwahati, Assam, India
Thesis: Significance of Glottal Activity Detection for Speaker Verification in Degraded and Limited Data Condition
Advisor: Prof. S.R.M. Prasanna
GPA: 8.92/10.0

PUBLICATIONS

[3] **Ashutosh Pandey** and DeLiang Wang, "A New Framework for Supervised Speech Enhancement in the Time Domain", in *proceedings of INTERSPEECH*, 2018, pp. 1136-1140.

[2] **Ashutosh Pandey** and DeLiang Wang, "On Adversarial Training and Loss Functions for Speech Enhancement", in *proceedings of ICASSP*, 2018, pp. 5414-5418.

[1] **Ashutosh Pandey**, Rohan Kumar Das, Nagraj Adiga, Naresh Gupta and S R Mahadeva Prasanna, "Significance of Glottal Activity Detection for Speaker Verification in Degraded and Limited Data Condition", in *proceedings of TENCON*, 2015, pp. 1-6.

SUBMITTED PAPERS

[3] **Ashutosh Pandey** and DeLiang Wang, "TCNN: Temporal Convolutional Neural Network for Real-Time Speech Enhancement in the Time Domain", submitted in *ICASSP*, 2019

[2] **Ashutosh Pandey** and DeLiang Wang, "Exploring Deep Complex Networks for Complex Spectrogram Enhancement", submitted in *ICASSP*, 2019.

[1] **Ashutosh Pandey** and DeLiang Wang, "A New Framework for CNN Based Speech Enhancement in the Time Domain", submitted in *IEEE/ACM Transactions on Audio, Speech, and Language Processing*.

RESEARCH EXPERIENCES

Graduate Research Associate   August 2017 - present
Perception and Neurodynamics Laboratory (PNL), The Ohio State University, Columbus, OH, USA

- Speech Enhancement
- Speech Dereverberation

- Speaker Separation

Research Engineer   June 2015 - June 2016
Aspiring Minds Assessment Pvt Limited
- Natural Language Processing
- Machine Learning

Research Intern   May 2014 - July 2014
University of Alberta, Edmonton, Alberta, Canada
- Hardware simulation of gene regulatory networks (GRNs)
- Simulink and Modelsim

B.Tech Thesis   August 2014 - April 2015
Indian Institute of Technology Guwahati, Assam, India
- Speaker verification

SKILLS&TOOLS   Python, C++, TensorFlow, PyTorch, Keras, MATLAB

SERVICES   Reviewer:
- *IEEE/ACM Transactions on Audio, Speech, and Language Processing*
- *AAAI Conference on Artificial Intelligence*