SHABNAM GHAFFARZADEGAN

ADDRESS: 800 W. Campbell Road, Richardson, Texas 75080-3021, TX 75080	Email: shabnam.ghaffarzadegan@utdallas.edu
EDUCATION	
University of Texas at Dallas, Richardson, TX Advisor: John H. L. Hansen, Ph.D. Research Topic: Automatic Speech Recognition GPA: 4.0/4.0	Jan.2013-Present
Amirkabir University of Technology, Tehran, Iran Master of Science in Electrical Engineering Research Topic: Blind Source Separation and Localization GPA: 18/20	Sep.2009-Jan.2012
Amirkabir University of Technology, Tehran, Iran Bachelor of Science in Electrical Engineering GPA: 17.63/20	Sep.2005-Jul.2009
RESEARCH INTEREST	
Robust Speech Recognition Robust feature extraction front-ends Audio, speech and Language Processing Deep learning in speech recognition Blind Source Separation	
EXPERIENCE	
University of Texas at Dallas, Richardson, TX	Jan.2013-Present
 Research Assistant Proposing new feature and model based strategies for robust speech recognition in mismatched conditions specifically for whispered speech recognition task. 	
• Using Automatic speech recognition to improve speech intelligibility under reverberant environments in cochlear implants.	
Amirkabir University of Technology, Tehran, Iran Teaching Assistant, Digital Design	Jan.2011-Jun.2011
• Teach review sessions every week to over 40 students on average.	
• Host weekly TA hours to answer students' questions and provide guidance.	
• Grade homework and quizzes.	
 Amirkabir University of Technology, Tehran, Iran Lab Assistant, Electricity laboratory Instruct students through experiments of lab sessions 	Sep.2010-Jan.2011 averaging twelve students each.
SKILLS	
Electrical Engineering Softwares: KALDI, SPHINX, MATLAB, LabVIEW Programming Language: Python, Theano, Perl, C++ Publishing: MS word, Latex, bibtex Operating Systems: Windows, Linux.	

PROJECTS

Convolutive Blind source Separation with the application of Sound Source Localization, Amirkabir University of Technology, Jan. 2012, M.S. Thesis. Speech Recognition System for SAMSUNG Mobile Devices. 2013 - 2014.

HONORS

Top 20 % among M.Sc. students in the Electrical Engineering department of Amirkabir University, Winter 2012.

Admitted for M.Sc. studies at Amirkabir University without taking the requisite entrance examination, Fall 2009.

Top 20 % among 120 students in the Electrical Engineering department of Amirkabir University, Spring 2009.

PUBLICATIONS

Conference Proceedings:

Ghaffarzadegan, S., Boril, H., Hansen, J. H. L., "UT-VOCAL EFFORT II: Analysis and Constrained-Lexicon Recognition of Whispered Speech," in IEEE ICASSP'14, Florence, Italy, May 4-9.

Ghaffarzadegan S., Boril, H., and Hansen J. H. L., "Model and Feature Based Compensation for Whispered Speech Recognition," in INTERSPEECH 2014, Singapore, Sept 2014, pp. 2420-2424.

Ghaffarzadegan S., Boril, H., and Hansen J. H. L., "Generative Modeling of Pseudo-Target Domain Adaptation Samples for Whispered Speech Recognition," in IEEE ICASSP 2015, Brisbane, Australia, April 2015.

Hazrati O., **Ghaffarzadegan S.**, and Hansen J. H. L., "Leveraging Automatic Speech Recognition in Cochlear Implants for Improved Speech Ineligibility under Reverberation," in IEEE ICASSP 2015, Brisbane, Australia, April 2015.

Journal Articles:

Mirsamadi S., **Ghaffarzaegan S.**, Sheikhzadeh H., Ahadi S., Rezaie A., "Efficient Frequency Domain Implementation of Noncausal Multichannel Blind Deconvolution for Convolutive Mixtures of Speech," IEEE Transactions on Audio, Speech & Language Processing 20(8): 2365-2377 (2012).

COURSES

Digital Signal processing (I and II) Random Processes Detection and Estimation Speech and Speaker Recognition Deep Neural Networks Machine Learning Hardware Design and Coding for TI DSP Processors

REFERENCES

Dr. John H.L. Hansen, Advisor Associate Dean for Research Electrical Engineering Department, University of Texas at Dallas, TX, USA Email: john.hansen@utdallas.edu

Dr. Carlos Busso

Assistant Professor Electrical Engineering Department, University of Texas at Dallas, TX, USA Email: busso@utdallas.edu

Dr. Hynek Boril

Assistant Research Professor Electrical Engineering Department, University of Texas at Dallas, TX, USA Email: hynek@utdallas.edu