

Dr. Mirza Muhammad Ali Baig.
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Work Experience:

2007- Date: Electrical Engineering Department, NED University.

Academic Qualification:

2011-2017 PhD: *Automatic Segmentation of Speech*, NED University.

2008-2010 M.Engg: *Electrical Power Systems*, NED University.

2003-2006 B.E: *Electrical Engineering*, NED University.

Professional Trainings /Workshops Attended/Organized

- 2011 Online certificate-course on *Machine learning*, Stanford University.
- 2013 Attended International workshop on *Fundamentals of Intellectual Property*, NED University.
- 2014 Attended HEC on campus training program on *Presentation Skills*, NED University.
- 2018 Program Secretary of *International Electrical Engineering Conference-2018*, IET Karachi
- 2019 Program Secretary of *International Electrical Engineering Conference-2019*, IET Karachi

Publications

- 1) Baig, Mirza Muhammad Ali, Saad Ahmed Qazi, and Muhammad Bilal Kadri. "*Discriminative training for phonetic recognition of the Holy Quran.*" Arabian Journal for Science and Engineering 40.9 (2015): 2629-2640
- 2) Uddin, Muhammad Hammad, Muhammad Ali Baig, and Muhammad Ali. "*Comparison of 'perturb & observe' and 'incremental conductance', maximum power point tracking*

algorithms on real environmental conditions." Computing, Electronic and Electrical Engineering (ICE Cube), 2016 International Conference on. IEEE, 2016.

- 3) Azeem, Iqbal, Mirza Muhammad Ali Baig, and Muhammad Hammad Uddin. "***A Strategy to Evaluate MPPT Techniques.***" 2018 Asian Conference on Energy, Power and Transportation Electrification (ACEPT). IEEE.
- 4) Javed, Muhammad, Mirza Muhammad Ali Baig, and Saad Ahmed Qazi. "***Unsupervised Phonetic Segmentation of Classical Arabic Speech Using Forward and Inverse Characteristics of the Vocal Tract.***" Arabian Journal for Science and Engineering (2019): 1-17.
- 5) Shaikh, Abdurrahman Javid, F. Packeer & MM Ali Baig, "***A full 3D model of the modulation efficiency of a submicron complementary metal–oxide–semiconductor (CMOS)-compatible interleaved-junction optical phase shifter.***" Journal of Computational Electronics 18.4 (2019): 1379-1387.

Current Research Focus

- a) Development of *Automatic Speech Segmentation* techniques, for training speech recognizers
- b) Developing deep neural networks to model the optical confinement factor of SOI rib waveguides.
- c) Development of *Urdu handwritten text recognizer*, using Deep Neural Network based approaches
- d) Development of speech recognizers for Classical Arabic and local languages, using state-of-art techniques