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Shyla Kupis and **Vincent Barra**, NC , and **Taufiqar Khan*** (taufiqar.khan@uncc.edu),
Department of Mathematics and Statistics, Fretwell 360E, Charlotte, NC 28223. *Deep Learning Approaches for Computational Inverse Problem in Electrical Impedance Tomography*. Preliminary report.

In this talk, we will provide an overview of machine learning approaches for solving the computational image reconstruction problems in electrical impedance tomography (EIT). We will present how deep learning approaches compare to deterministic regularization such as sparsity and smoothness for EIT using simulated data. (Received January 09, 2021)