

Paper Session XII Friday, March 11<sup>th</sup>, 2016 8:00 am- 9:40 am Bellsouth Auditorium  
Power Electronics Converters/Inverters

Chair: *Shuhui Li (University of Alabama, Tuscaloosa, USA)*

Co-chair: *Dr. Keith Corzine (Clemson University, USA)*

8:00-8:20: Application of Reduced Stacked Multicell Converter in Dual-Function Dynamic Voltage Restorer (DVR)

*Arash Khoshkbar Sadigh (Extron Electronics, USA), Vahid Dargahi, Dr. Keith Corzine (Clemson University, USA)*

8:20-8:40: Embedded Digital System Design for Neural Network Based Vector Control of a Single-Phase Inverter

*Xingang Fu (University of Alabama, Tuscaloosa, USA), Matheus Brati Rossetto (Ministry of Education, Brazil), Shuhui Li (University of Alabama, Tuscaloosa, USA)*

8:40-9:00: Medium Voltage Synamic Voltage Restorer (DVR) Based on DFCM Converter for Power Quality Improvement

*Vahid Dargahi, Arash Khoshkbar Sadigh, Dr. Keith Corzine (Clemson University, USA)*

9:00-9:20: Integrating Droop and Direct Current Vector Control for Control of Parallel inverters in Islanded Microgrid

*Malek Ramezani, Shuhui Li (University of Alabama, Tuscaloosa, USA)*

9:20-9:40: Reactive Power Compensation through Synchronization of Networked VFDs

*Naila Ramzan, Arooj Akbar, Zeinab Jamal Khan, Palwasha Naseer, Nauman Zaffar (Syed Babar Ali School of Science & Engineering, Pakistan)*