

Paper Session W – M I: Power Electronics: Wednesday, September 5th, 2018

When: 10:30 am-12:30 pm

Where: Ballroom B

Chair: Shuhui Li, University of Alabama, USA

Co-Chair: Roy A. McCann, University of Arkansas, USA

[1] 10.30 am – 10.50 am: Comparative Analysis of MPPT Methods for PV System with DC-DC Three Level Converter

*Krishna Khadka, Hamed Pourgharibshahi, Hassan Zargarzadeh
(Lamar University, Beaumont, TX, USA)*

[2] 10.50 am – 11.10 am: Adaptive Backstepping Control of PWM DC-DC Boost Power Converter Considering Parasitic Elements Effect

Khalid S. Alharbi, Roy A. McCann (University of Arkansas, USA)

[3] 11.10 am – 11.30 am: Comparison and Simulation of the Level-Shifted and Phase-Shifted Modulation for a Five-Level Converter for Integration of Renewable Sources

Abdullah Al Hadi, Xingang Fu, Wanjau Waithaka, Rajab Chaloo, Shuhui Li. (Texas A&M University, University of Alabama, USA)

[4] 11.30 am – 11.50 am: Controller Design of Voltage Source Converter Using Nyquist Array

*Hamed Pourgharibshahi, Majid Taheri Andani, Zahra Ramezani, Kamran Yousefpour, Tahere Pourseif, Leila Ghorbanzadeh
(Tehran University, Iran, Shahid Beheshti University, Iran, Mississippi State University, USA)*

[5] 11.50 am – 12.10 pm - Reduction in Total Harmonic Distortion of Cascaded H-Bridge Multilevel Inverter with Equal Phase Method

Muhammad Salman, Abdul Basit, Muhammad Shoaib Khalid, Affaq Qamar (University of Engineering and Technology, Pakistan)

[6] 12.10 pm – 12.30 pm: SSI Based Validation of PV Inverter Operation Improvement with Optimally-Tuned Controllers

Ali Arzani, Paranietharan Arunagirinathan, Ganesh K. Venayagamoorthy (Clemson University, USA)