

Paper Session T A IV: Power Converters

When: 4:15 pm – 6:00 pm, Thursday March 12th, 2020

Where: Ballroom C

Chair: Dr. Johan Enslin, Clemson University, SC, USA.

Co-Chair: Dr. Vahid Dargahi, University of Washington, Tacoma, WA, USA.

4:15 pm – 4:40 pm: Grid Following Inverters and Synchronous Condensers: a Grid Forming Pair?

Richard Kenyon, Anderson Hoke, Jin Tan, Bri Hodge

(University of Colorado Boulder, Boulder, CO, USA, National Renewable Energy Laboratory, Golden, CO, USA)

4:40 pm – 5:05 pm: Intelligent Power Converter Controllers for Photovoltaic Systems

Ali Arzani, Kumar Venayagamoorthy

(Clemson University, Clemson, SC, USA)

5:05 pm – 5:30 pm: Analytical Comparison of Average and RMS Currents of IGBTs and MOSFETs in Single-Phase Full-Bridge Inverters Controlled with Bipolar and Unipolar Switching Methods

Sagar Pandey, Arash Sadigh, Vahid Dargahi, Poria Fajri

(Pennsylvania State University, University Park, PA, USA, University of Washington, Tacoma, WA, USA, University of Nevada, Reno, NV, USA)

5:30 pm – 5:55 pm An LC Filter Design Based on the Maximum Ripple Current for Two-Level Inverters Controlled with a Bipolar Switching Scheme

Ketan Lakhera, Arash Sadigh, Vahid Dargahi, Poria Fajri

(Pennsylvania State University, University Park, PA, USA, University of Washington, Tacoma, WA, USA, University of Nevada, Reno, NV, USA)