

Paper Session T A II: Microgrid

When: 1:10 pm – 3.45 pm, Thursday, March 12th, 2020

Where: Ballroom C

Chair: Dr. Edgar Sanchez, CINVESTAV, Guadalajara, Mexico

Co-Chair: Dr. Christopher Edrington, Clemson University, USA

1:10 pm – 1:35 pm: Secondary Control of Microgrids via discrete-time neural distributed cooperative control

Carlos Vega, Larbi Djilali, Edgar Sanchez

(CINVESTAV, Guadalajara, Mexico)

1:35 pm – 2:00 pm: An Intelligent Load Shedding Scheme for a Micro-Grid Using Probabilistic Techniques

Naireeta Deb, Gokhan Ozkan, Phuong Hoang, Christopher Edrington, Behnaz Papari, Payam Badr

(Clemson University, Clemson, SC, USA, Florida State University, Tallahassee, FL, USA, University of North Carolina at Charlotte, Charlotte, NC, USA)

2:00 pm – 2:25 pm: Remote hardware-in-the-loop approach for microgrid controller evaluation

Kumaraguru Prabhakar, Amir Valibeygi, Sai Konakalla, Brian Miller, Raymond De Callafon, Annabelle Pratt, Martha Symko-Davies, Thomas Bialek

(University of California at San Diego, La Jolla, CA, USA, National Renewable Energy Laboratory, Golden, CO, USA, San Diego Gas & Electric Company, San Diego, CA, USA)

2:25 pm – 2:50 pm: Microgrids: A Solution Towards Implementing Demand Response Programs

Fatemeh Tooryan, Azdeh Shadman, Saeed Kamalinia, Edward Collins

(Clemson University, Clemson, SC, USA, S & C Electric Company, Chicago, IL, USA)

2:50 pm – 3:15 pm: Modelling and Assessment of the Fault Ride-Through Capabilities of Grid Supporting Inverter-Based Microgrids

Elutunji Buraimoh, Inno Davidson

(Durban University of Technology, Durban, South Africa)

3:15 pm – 3:40 pm: Reinforcement Learning Approaches to Power Management in Grid-tied Microgrids: A Review

Erick Arwa, Komla Folly (University of Cape Town, Cape Town, South Africa)