

# 4<sup>th</sup> Workshop on Management and Control of Energy Supply-demand Networks with Renewables

October 24, 2018 ~ McKenna Hall Room 210 ~ University of Notre Dame

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**Wednesday, October 24, 2018**

8:00am: Meet & Greet

**8:30am – 10:00am: Session I**

8:30am: Subhonmesh Bose (UIUC) - On Wholesale Electricity Market Design: from Renewable Integration to Strategic Interaction

8:55am: Takashi Tanaka (U T Austin) - Dynamic Mechanism Design Theory for Real-time Power Market Operations

9:20am: Yasuaki Wasa (Waseda University) - Optimal Control/incentive Based on Contract Theory and Analysis of Ancillary Services in Dynamic Power Network

**10:30am – 12:00pm: Session II**

10:30am: Vijay Gupta (Notre Dame) - A Flexibility Market-based Approach to Increase Penetration of Renewables

10:55am: Anuradha Annaswamy (MIT) - A Retail Market Mechanism Based on a Distributed Optimization Approach

11:20am: Kenji Hirata (Univ of Toyoma) - An Iterative Bidding Process of Multiple Consumers/suppliers in Energy Trading Markets and Social Welfare Maximization

**2:00pm – 3:30pm: Session III**

2:00pm: Lang Tong (Cornell) - Distributed Energy Resources in Distribution Systems: Regulatory and Engineering Challenges

2:25pm: Eiji Sawada (Kyushu Sangyo University) - Dynamic Pricing and Consumers' Adaptive Behavior: Energy Demand-supply Balance When Consumers Change Their Lifestyles in the Long-run

2:50pm: Yusuke Okajima (Joetsu University of Education) - A Study on Performance Indices in Model Predictive Control for Real-time Pricing with Renewable Energies

**4:00pm – 5:30pm: Session IV**

4:00pm: Marija Ilic (CMU / MIT) - Enabling Prosumer-centric Transactive Energy Management

4:25pm: Toru Namerikawa (Keio University) - Passivity-Short-based Plug and Play Operation of Dynamic Electricity Pricing with Power Flow

4:50pm: Takeshi Hatanaka (Osaka University) - Cyber-Physical Building Energy Management and Campus EMS Simulator Development

**5:30pm: Wrap-up**

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Please register at [Management Control Workshop Registration](#)

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