



From Local to Global: Distributed Energy Resources Integration

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ABSTRACT

U.S. electricity generation, transmissions, and distribution infrastructure is undergoing upgrades to keep up with increasing electricity demands. The evolution of the grid now faces significant challenges in flexibility if it is to integrate and accept more energy from renewable generation and other Distributed Energy Resources (DERs).

This talk will discuss possible paths forward for the development of disruptive technologies for real-time monitoring and control of power events enabling seamless integration of distributed generation, flexible loads, and storage assets into consumer driven, reliable, and secure Power Grid of the Future.

BIO

Dr. Sonja Glavaski is a Program Director at the Advanced Research Projects Agency-Energy (ARPA-E). Her technical focus area is data analytics, and distributed control and optimization in complex, cyber-physical, and networked systems with applications to control, monitoring, and security of energy systems.

Prior to joining ARPA-E, Dr. Glavaski was Control Systems Group Leader at United Technologies Research Center, advancing technology in the area of control & intelligent systems. Before being at UTRC, Dr. Glavaski led key programs at Eaton Innovation Center and Honeywell Labs.

Dr. Glavaski received Ph.D. in Electrical Engineering, from California Institute of Technology, and M.S. and Dipl. Ing. in Electrical Engineering, from University of Belgrade.