



Spring 2019 Seminar Series

Grid Modernization: Challenges, Opportunities, and Solutions

FRIDAY JANUARY 18, 2019

11:00AM – HEC 101A

Our aging grid infrastructure faces increasing challenges from multiple sources including greater demand variability, stricter environmental regulations and growing cyber security concerns. Advanced smart grid technologies provide possible solutions to tackle these challenges. Meanwhile how to best utilize these new devices and technologies such as PMUs and electric vehicles remains a challenge by itself. In this talk, I will address various topics which span a multitude of areas including demand response, stochastic optimization for renewable integration, microgrids and cyber security. I will present the technical issues in implementing these technologies and corresponding potential solutions.

Jianhui Wang

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Dr. Jianhui Wang is an associate professor at Southern Methodist University. Prior to joining SMU, Dr. Wang had an eleven-year stint at Argonne National Laboratory with the last appointment as Section Lead – Advanced Grid Modeling. He is the Secretary of the IEEE Power & Energy Society (PES) Power System Operations, Planning & Economics Committee. He has authored/co-authored more than 300 journal and conference publications. His work has been cited for more than 13000 times by his peers (Google Scholar). Dr. Wang is the Editor-in-Chief of the IEEE Transactions on Smart Grid and an IEEE PES Distinguished Lecturer. He is also a Clarivate Analytics highly cited researcher for 2018.