

Collaboration with the Universities in the U.S.

Qing Xia

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Self-intro and US Collaborators



Qing Xia



- IEEE Senior Member
- **Chairman**, Degree Committee, Department of Electrical Engineering, Tsinghua University
- Research Area:** Power system operations, power system security, smart grids, demand response, energy economics

Prof. James D. McCalley



- **Harpole Professor** in Electrical Engineering, Electrical and Computer Engineering, College of Engineering, Iowa State University
- IEEE Fellow

Prof. Chen-Ching Liu



- **Boeing Distinguished Professor** of Electrical Engineering
- **Professor**, School of Electrical Engineering and Computer Science
- **Director**, Energy Systems and Innovation Center (ESIC)

Prof. Le Xie



- **Assistant Professor**, at the Department of Electrical and Computer Engineering, Texas A&M University



Collaboration Projects

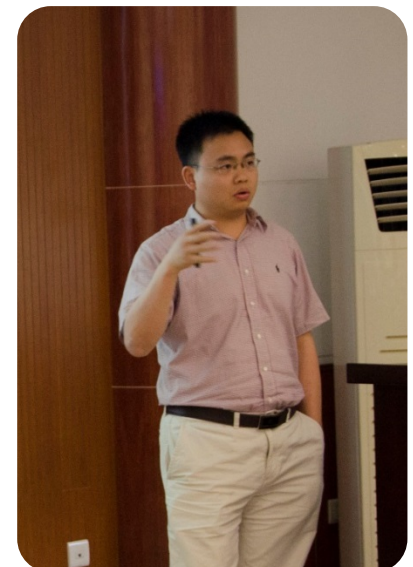
Project Details

- [1] October 2009~2010: Visiting PhD student, **Yang Wang**, “Risk-based Corrective Security Constrained Unit Commitment.”
- [2] September 2012~2013 : Visiting PhD student, **Sijie Chen**, Engineering and Sociological Foundations for Smart Distribution Systems
- [3] “Sometimes Carrots Are Better Than Sticks: Quantifying the Value of Energy Coupon in Smart Power Distribution Grids”, **Texas A&M University** and National Natural Science Foundation of China (**NSFC**) Research Grant Program, 2013~2014

Seminars

Prof. Le Xie: Metric and Construct of Inter-temporal Flexibility for Sustainable Power Systems. Tsinghua University, Jul 23, 2014

Qing Xia: Texas A&M University, Aug 1, 2012





Publications

H. Zhong, **Le Xie**, **Qing Xia**. Coupon Incentive-based Demand Response: Theory and Case Study. *IEEE Transactions On Power Systems*, 2013, 28(2):1266-1276.

H. Zhong, **Qing Xia**, Y. Xia, C. Kang, **Le Xie**, W. He, and H. Zhang, "Integrated Dispatch of Generation and Load: A Pathway Towards Smart Grids," *Electric Power Systems Research*, (2014), <http://dx.doi.org/10.1016/j.epsr.2014.04.005>.

Haiwang Zhong, **Le Xie**, and **Qing Xia**. Coupon Incentive-based Demand Response in Smart Grid. IEEE Power & Energy Society General Meeting, 2012. San Diego.

Xiaowen Lai, **Qing Xia**, and **Le Xie**, "Inter-area Power Exchange Preserving Multi-area Economic Dispatch," Proceedings of IEEE Power and Energy Society General Meeting, July 2014 (To Appear).

Thank you!

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