

Dr. Lingling Fan joined University of South Florida in 2009. She is currently an associate professor in the Department of Electrical Engineering. She has six-year industry experience (with [Midwest ISO](#) from December 2001 to August 2007). She received her BSEE and MSEE degrees from Southeast University (Nanjing China) in 1994 and 1997. She received her Ph.D. from [West Virginia University](#) in 2001. Dr. Fan serves as an editor for IEEE Transactions on Sustainable Energy.

Dr. Fan was the recipient of Midwest ISO Outstanding Achievement Award in 2005, Rockwell Automation Scholarship of Southeast University in 1998. Her college exam entrance score was ranked No. 7 in Jiangsu Province, China in 1990.

### **Research Interests**

Dr. Fan's research areas include power systems and power electronics. Specifically her research focuses on dynamic modeling, estimation, control and optimization of power systems, power electronic converters, renewable energy integration, and energy storage.

### **Recent Publications**

- Monograph: L. Fan and Z. Miao, *Modeling and Analysis of Doubly Fed Induction Generator Wind Energy Systems*, Academic Press, April 2015.
- L. Xu, L. Fan and Z. Miao, "DC impedance-model-based resonance analysis of a VSC-HVDC system," IEEE trans. Power Delivery, vol. 30, no. 3, 2015.
- L. Xu and L. Fan, "Impedance-based resonance analysis in a VSC-HVDC system," IEEE trans. Power Delivery, vol. 28, no. 4, pp. 2209-2216, 2013.
- L. Fan and Z. Miao, "Nyquist-stability-criterion-based SSR explanation for Type-3 wind generators," IEEE trans. Energy Conversion, vol. 27, no. 3, pp. 807-809, 2012.
- L. Fan, R. Kavasseri, Z. Miao and C. Zhu, "Modeling of DFIG-based wind farms for SSR analysis," IEEE trans. Power Delivery, vol. 25, no. 4, pp. 2073-2082, 2010.
- Z. Miao, L. Fan, D. Osborn, and S., "Control of DFIG based Wind Generation to Improve Inter-Area Oscillation Damping," IEEE Transactions on Energy Conversion, vol. 24, no. 2 , pp. 415-422, June 2009.

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