

Advanced control and prognosis for grid integration of Wind Energy

by

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Abstract

Renewable energy provides a sustainable and carbon free solution for energy supply. However, renewable energy systems such as wind turbine and PV systems often suffer from random power grid disturbances to trip offline. Besides, their generation outputs are random and hard to be predicted accurately. This talk will focus on fault-ride-through control technologies to enable wind turbines from undesirable tripping-offs during grid disturbances. In addition, novel methods for probabilistic prognosis of wind power generation will also be introduced.

Biography



Prof Z. Xu obtained his PhD from The University of Queensland in 2006. He was Assistant and then Associate Professor with Department of Electrical Engineering, Technical University of Denmark during 2006-2010. He is now a Professor with EEE Department, The Hong Kong Polytechnic University. His research interests include smart grid, renewable energy and applications of AI and big data analytics. He has extensive research project experiences involving collaborations with academia, industrial and business sectors. Prof Xu received several awards for research excellence including 2017 State Award in Nature Science from MOE, PR China and Gold Medal from Geneva Exhibition. He is currently Chairman of IEEE Hong Kong Joint Chapter of PES/IELS/IAS/PELS. He also holds editorships for several IEEE/IET journals.

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**** ALL ARE WELCOME ****

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