

Resilience informed integrity management of offshore wind farm systems

Speaker: Dr. Jianjun Qin, Shanghai Jiao Tong University **Time:** 15th September, 2022 15:00 – 16:00 CST

Host: Prof. Michael Havbro Faber, Aalborg University

Lecture outline:

Provision of offshore wind energy is of significant importance in our quest for sustainability and resilience in the face of climate change and geo-political uncertainty. However, in this perspective our expectations to the performances of offshore wind turbine parks are not limited to the safety of the infrastructure systems but also on the reliable and stable provision of service during their entire life cycles. In this lecture I will start out with an outline of the problems and the challenges associated with integrity management of offshore wind farms. Thereafter, I will introduce a general probabilistic framework for resilience modeling and analysis of offshore wind farm, and illustrate how such a framework may be implemented within the modeling techniques and tools commonly applied in the industry.

About the speaker:

Jianjun Qin holds a doctoral degree of ETH Zurich (Dr. sc. ETH Zurich) and currently he is an associate professor at Shanghai Jiao Tong University. His research interests are, but not limited to, catastrophe modeling, applied decision theory and life-cycle analysis for infrastructure systems with the application of advanced mathematical tools including AI technology and Bayesian approaches. In the last years, he published more than 50 academic papers. Two journal papers were chosen as the best paper and one as featured article. He was awarded Hojjat Adeli Award for Innovation in Computing by Wiley and Chinese Government Award in 2013 and 2012 respectively.



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