Ju Feng - DTU Orbit (14/12/2017)
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Department of Wind Energy - Senior Researcher
Fluid Mechanics

Publications:

**Design optimization of offshore wind farms with multiple types of wind turbines**
Publication: Research - peer-review › Journal article – Annual report year: 2017

**Wind farm power production in the changing wind: Robustness quantification and layout optimization**
Publication: Research - peer-review › Journal article – Annual report year: 2017

**Multi-objective random search algorithm for simultaneously optimizing wind farm layout and number of turbines**
Publication: Research - peer-review › Conference article – Annual report year: 2016

**Wind turbine wake measurement in complex terrain**
Publication: Research - peer-review › Conference article – Annual report year: 2016

**Modelling Wind for Wind Farm Layout Optimization Using Joint Distribution of Wind Speed and Wind Direction**
Publication: Research - peer-review › Journal article – Annual report year: 2015

**Solving the wind farm layout optimization problem using random search algorithm**
Publication: Research - peer-review › Journal article – Annual report year: 2015

**Operating wind turbines in strong wind conditions by using feedforward-feedback control**
Publication: Research - peer-review › Conference article – Annual report year: 2015

**Wind farm layout optimization in complex terrain: A preliminary study on a Gaussian hill**
Publication: Research - peer-review › Conference article – Annual report year: 2014

**Optimization of Wind Farm Layout: A Refinement Method by Random Search**
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

**A minimax optimal control strategy for partially observable uncertain quasi-Hamiltonian systems**
Publication: Research - peer-review › Journal article – Annual report year: 2012

**A minimax stochastic optimal semi-active control strategy for uncertain quasi-integrable Hamiltonian systems using magneto- rheological dampers**
Control of variable speed pitch-regulated wind turbines in strong wind conditions using a combined feedforward and feedback technique

Robustness of feedback stabilization of quasi non-integrable Hamiltonian systems with parametric uncertainty

Stochastic optimal control analysis of a piezoelectric shell subjected to stochastic boundary perturbations

Electric potential response analysis of a piezoelectric shell under random micro-vibration excitations

Stochastic micro-vibration response of a spherically symmetric piezoelectric shell structure as sensor

Stochastic minimax optimal time-delay state feedback control of uncertain quasi-integrable Hamiltonian systems

Stochastic optimal time-delay control of quasi-integrable Hamiltonian systems

Projects:

Wind Farm Layout Optimization in Complex Terrain
01/04/2014 → 31/12/2017

Activities:

Wind farm design in complex terrain - the FarmOpt methodology
Feng, J. (Invited speaker), Shen, W. Z. (Other)
18 Oct 2017
Activity: Talks and presentations › Conference presentations