Research outputs:

Design optimization of a curved wind turbine blade using neural networks and an aero-elastic vortex method under turbulent inflow
Research output: Contribution to journal › Journal article – Annual report year: 2020 › Research › peer-review

Artificial Intelligence for Wind Energy (AI4Wind): A state of the art report
Research output: Book/Report › Report – Annual report year: 2019 › Research

An optimization framework for wind farm design in complex terrain
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Design optimization of offshore wind farms with multiple types of wind turbines
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Wind farm design in complex terrain: the FarmOpt methodology
Research output: Contribution to conference › Paper – Annual report year: 2017 › Research › peer-review

Wind farm design in complex terrain: the FarmOpt methodology
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2017 › Research

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

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

Wind turbine wake measurement in complex terrain
Research output: Contribution to journal › Conference article – Annual report year: 2016 › Research › peer-review

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

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

Operating wind turbines in strong wind conditions by using feedforward-feedback control
Research output: Contribution to journal › Conference article – Annual report year: 2015 › Research › peer-review
Wind farm layout optimization in complex terrain: A preliminary study on a Gaussian hill
Research output: Contribution to journal › Conference article – Annual report year: 2014 › Research › peer-review

Optimization of Wind Farm Layout: A Refinement Method by Random Search
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2013 › Research › peer-review

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

A minimax stochastic optimal semi-active control strategy for uncertain quasi-integrable Hamiltonian systems using magneto-rheological dampers
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Control of variable speed pitch-regulated wind turbines in strong wind conditions using a combined feedforward and feedback technique
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2013 › Research › peer-review

Robustness of feedback stabilization of quasi non-integrable Hamiltonian systems with parametric uncertainty
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Stochastic optimal control analysis of a piezoelectric shell subjected to stochastic boundary perturbations
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Electric potential response analysis of a piezoelectric shell under random micro-vibration excitations
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Stochastic micro-vibration response of a spherically symmetric piezoelectric shell structure as sensor
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2011 › Research › peer-review

Stochastic minimax optimal time-delay state feedback control of uncertain quasi-integrable Hamiltonian systems
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Stochastic optimal time-delay control of quasi-integrable Hamiltonian systems
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Projects:

Wind Farm Layout Optimization in Complex Terrain
Project: Research

Activities:

Wind farm design in complex terrain - the FarmOpt methodology
Activity: Talks and presentations › Conference presentations