Rozenn Wagner - DTU Orbit (30/01/2019)
Wagner, Rozenn
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Department of Wind Energy - Senior Researcher
Meteorology & Remote Sensing

Research outputs:

**Calibration of three Nacelle-based Lidars**
Research output: Research › Report – Annual report year: 2017

**Nacelle lidar for power perf. – the UniTTe approach to retrieve V∞**
Borraccino, A. & Wagner, R. 2017
Research output: Research - peer-review › Sound/Visual production (digital) – Annual report year: 2018

**Power performance verification in complex terrain using nacelle lidars: the Hill of Towie (HoT) campaign**
Research output: Research › Report – Annual report year: 2018

**Sensitivity analysis of nacelle lidar free stream wind speed measurements to wind-induction reconstruction model and lidar range configuration**
Research output: Research › peer-review › Report – Annual report year: 2017

**Wind Field Reconstruction from Nacelle-Mounted Lidars Short Range Measurements**
Research output: Research › peer-review › Journal article – Annual report year: 2017

**Generic Methodology for Field Calibration of Nacelle-Based Wind Lidars**
Research output: Research › peer-review › Journal article – Annual report year: 2016

**Nacelle power curve measurement with spinner anemometer and uncertainty evaluation**
Research output: Research › peer-review › Journal article – Annual report year: 2016

**Ten Years of Boundary-Layer and Wind-Power Meteorology at Hasøøre, Denmark**
Research output: Research › peer-review › Journal article – Annual report year: 2015

**Wind Turbine Performance Measurements by Means of Dynamic Data Analysis**
Research output: Research › Report – Annual report year: 2016

**Wind turbine power performance measurement with the use of spinner anemometry**
Demurtas, G., Friis Pedersen, T. & Wagner, R. 2016 DTU Wind Energy. 135 p. (DTU Wind Energy PhD; No. 0063(EN)).
Power curve report - with turbulence intensity normalization
Gómez Arranz, P., Wagner, R. & Vesth, A. 2014 DTU Wind Energy. 100 p. (DTU Wind Energy WTT I; No. 1073(EN)).
Research output: Research › Report – Annual report year: 2014

Rotor equivalent wind speed for power curve measurement – comparative exercise for IEA Wind Annex 32
Research output: Research - peer-review › Conference article – Annual report year: 2014

What makes a nacelle mounted lidar a suitable tool for power performance measurement?
Wagner, R., Courtney, M., Friis Pedersen, T., Davoust, S. & Rivera, R. L. 2014
Research output: Research - peer-review › Poster – Annual report year: 2014

Windcube + FCR test at Hrgud, Bosnia and Herzegovina
Research output: Research - peer-review › Report – Annual report year: 2014

Calibration of ground-based Lidar instrument WLS7-226
Gómez Arranz, P. & Wagner, R. 2013 DTU Wind Energy. 28 p. (DTU Wind Energy LC I; No. 018(EN)).
Research output: Research › Report – Annual report year: 2013

Calibration of ground-based Lidar instrument WLS7-269
Gómez Arranz, P. & Wagner, R. 2013 DTU Wind Energy. 29 p. (DTU Wind Energy LC I; No. 022(EN)).
Research output: Research › Report – Annual report year: 2013

Calibration of ground-based Lidar instrument WLS7-91
Yordanova, G. & Wagner, R. 2013 DTU Wind Energy. 29 p. (DTU Wind Energy LC I; No. 031(EN)).
Research output: Research › Report – Annual report year: 2013

Multi-site testing and evaluation of remote sensing instruments for wind energy applications
Research output: Research - peer-review › Journal article – Annual report year: 2013

Nacelle lidar for power curve measurement - Avedøre campaign
Research output: Research › Report – Annual report year: 2013

Procedure for wind turbine power performance measurement with a two-beam nacelle lidar
Research output: Research › Report – Annual report year: 2013

Remote Sensing for Wind Energy
Research output: Research › Report – Annual report year: 2013

Turbulence measurement with a two-beam nacelle lidar
Research output: Research › Poster – Annual report year: 2013
Use of ground-based and nacelle-mounted lidars for power curve measurement
Wagner, R. 2013
Research output: Research › Sound/Visual production (digital) – Annual report year: 2013

Calibrating nacelle lidars
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012

Calibrating nacelle lidars
Research output: Research - peer-review › Poster – Annual report year: 2012

Calibration of ground-based lidar instrument WLS7-218
Research output: Research › Report – Annual report year: 2012

Calibration of ground-based lidar instrument WLS7-219
Research output: Research › Report – Annual report year: 2012

Calibration of ground-based lidar instrument WLS7-221
Research output: Research › Report – Annual report year: 2012

Calibration of ground-based lidar instrument WLS7-222
Research output: Research › Report – Annual report year: 2012

Calibration of ground-based lidar instrument WLS7-99
Research output: Research › Report – Annual report year: 2012

IMPER: Characterization of the Wind Field over a Large Wind Turbine Rotor: Final report
Schmidt Paulsen, U. & Wagner, R. 2012 Wind Energy Department, Technical University of Denmark. 335 p. (DTU Wind Energy E; No. 0002).
Research output: Research › Report – Annual report year: 2012

Improved energy production estimates by accounting for the wind shear
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012

Improved energy production estimates by accounting for the wind shear
Wagner, R. & Courtney, M. 2012 1 p.
Research output: Research - peer-review › Poster – Annual report year: 2012

Lidar profilers in the context of wind energy – a verification procedure for traceable measurements
Research output: Research - peer-review › Journal article – Annual report year: 2011

Standardised and diversified lidars
Research output: Research - peer-review › Journal article – Annual report year: 2012
Multi-MW wind turbine power curve measurements using remote sensing instruments – the first Høvsøre campaign
Wagner, R. & Courtney, M. 2009 Roskilde: Danmarks Tekniske Universitet, Risø Nationallaboratoriet for Bæredygtig Energi. 31 p. (Denmark. Forskningscenter Risoe. Risoe-R; No. 1679(EN)).
Research output: Research › Report – Annual report year: 2009

The influence of the Wind Speed Profile on Wind Turbine Performance Measurements
Research output: Research - peer-review › Journal article – Annual report year: 2009

Comparison of 3D turbulence measurements using three staring wind lidars and a sonic anemometer
Research output: Research › Report – Annual report year: 2008

Comparison of 3D turbulence measurements using three staring wind lidars and a sonic anemometer
Research output: Research › Conference article – Annual report year: 2008

Evaluation of different turbulence models with respect to coherences, spectras and lengthscales
Research output: Research › Conference abstract for conference – Annual report year: 2008

Investigation of the measurement of the wind speed standard deviation using a lidar
Research output: Research › Conference abstract for conference – Annual report year: 2008

ModObs: Atmospheric modelling for wind energy, climate and environment applications: Exploring added value from new observation technique, Work in progress within a FP6 Marie Curie Research Training Network
Research output: Research › Conference abstract in proceedings – Annual report year: 2008

Remote sensing used for power curves
Research output: Research › Conference article – Annual report year: 2008

Testing and comparison of lidars for profile and turbulence measurements in wind energy
Research output: Research › Conference article – Annual report year: 2008

Wind characteristics measurement for large wind turbine power curve
Research output: Research › Article in proceedings – Annual report year: 2008

Influence of wind characteristics on turbine performance
ModObs: "Atmospheric modelling for wind energy, climate and environment applications: Exploring added value from new observation techniques": A new Marie Curie Research Training Network in Europe

Projects:

TrueWind: TrueWind
Wagner, R., Courtney, M., Pedersen, T. F., Rolighed Thorsen, G., Pedersen, A. T., Dellwik, E., Mikkelsen, T. K. & Sjöholm, M.
01/01/2016 → 31/10/2019
Project: Research

RECAST: RECAST: Reduced Assessment Time
01/02/2018 → 01/03/2020
Project: Research

Using nacelle-mounted lidars in wind turbine power and load measurements
Borraccino, A., Courtney, M., Wagner, R., Hansen, K. S., Clifton, A. J. & Gottschall, J.
Forskningsrådetsfinansiering
01/06/2014 → 21/09/2017
Project: PhD

Remote Sensing Techniques Applied to Wind Energy
Wagner, R., Courtney, M., Pedersen, T. F., Barth, S. & Højstrup, J.
Risa (Len)
01/11/2006 → 01/09/2010
Project: PhD

Performance Measurements with the use of Spinner Anemometry
Demurtas, G., Pedersen, T. F., Mouritsen, S., Wagner, R., Hansen, K. S., Eecen, P. J., Gottschall, J. & Eecen, P. J.
1/3 FUU, 1/3 inst 1/3 Andet
01/10/2013 → 25/11/2016
Project: PhD

UniTTTe: Unified testing procedures for wind turbines through inflow characterisation using nacelle lidars
01/01/2014 → 31/12/2017
Project: Research

Activities:

IEA Wind Task 32 workshop
Borraccino, A. (Guest lecturer), Wagner, R. (Other), David Schlipf (Other), Nicolai Gayle Nygaard (Other)
27 Sep 2017
Activity: Talks and presentations › Conference presentations
Power performance measured using a nacelle-based lidar
Wagner, R. (Speaker)
14 Mar 2011
Activity: Talks and presentations › Conference presentations