

Publikationsliste / List of publications

Stuttgarter Lehrstuhl für Windenergie, Universität Stuttgart (SWE)

Projektname: Probabilistische Lastbeschreibung, Monitoring und Reduktion der Lasten zukünftiger Offshore-Windenergieanlagen
Kurzname in Rave: OWEA Loads (FKZ 0325577A)
Stand: April 2016

Aufsätze / papers

D. Kaufer and P. W. Cheng, "Validation of an Integrated Simulation Method with High Resolution Load Measurements of the Offshore Wind Turbine REpower 5M at alpha ventus", Journal of Ocean and Wind Energy Volume 1, No. 1, 2014.

U. Smolka and P.W.Cheng, "On the Design of Measurement Campaigns for Fatigue Life Monitoring of Offshore Wind Turbines", International Offshore and Polar Engineering Conference, Anchorage, Alaska, 30 June-5 July, 2013

B. Schmidt, U. Smolka, S. Hartmann, P.W. Cheng, "Validation of the Dynamic Wake Meander Model with AREVA M5000 Load Measurements at alpha ventus", EWEA Offshore 2013, Frankfurt, 2013

Vorträge / oral presentations

U. Smolka, "Efficient Organization of Wind Turbine Raw Data for Load Analysis: a Unified Framework", presentation at the Conference of the Windpower Engineering Community, Berlin, June 18–19, 2013

R. Faerron, S. Lott, K. Müller and P.W.Cheng, "Evaluation of the extreme and fatigue load measurements at alpha ventus", presentation at the Rave International Conference 2015, Bremerhaven, 2015

S. Lott, P.W. Cheng, "Modelling of Offshore Wind Turbines with a Coupled FLEX-ANSYS Simulation Environment", presentation at the ANSYS Conference & 33. CADFEM Users' Meeting 2015, Bremen, 2015

S. Lott, P.W. Cheng, "Statistical Extrapolation Methods for the Estimation of Offshore Wind Turbine Extreme Loads", 11th EAWE PhD Seminar, Stuttgart, Germany, 23-25 September 2015

K. Müller, P.W. Cheng "Validation of Uncertainty in IEC damage Calculations Based on Measurements from Alpha Ventus", 13th Deep Sea Offshore Wind R&D Conference, EERA DeepWind'2016, Trondheim, Norway, 20-22 January 2016

Poster / poster

S. Lott, P.W. Cheng, “Statistical Extrapolation Methods for the Estimation of Offshore Wind Turbine Extreme and Fatigue Loads”, 10th EAWE PhD Seminar, Orléans, France, 28-31 October 2014

Vorgesehene Veröffentlichungen / awaiting publication

K. Müller, M. Reiber and P.W.Cheng, “Statistical comparison of structural loads on offshore wind turbines from simulations and measurements”, Journal of Ocean and Wind Energy, 2015

K. Müller, P.W. Cheng “Validation of Uncertainty in IEC damage Calculations Based on Measurements from Alpha Ventus”, Energy Procedia, Elsevier

S. Lott, P.W. Cheng “Load extrapolations based on measurements from an offshore wind turbine at alpha ventus”, The Science of Making Torque from Wind (TORQUE) 2016, Munich