RAVE ML Workshop Programm

RAVE Thematic Workshop on Machine Learning Applications for Offshore Wind Data Analysis

October 10th, 2024
At Fraunhofer IWES (Bremen, Germany)
Hybrid event, 10:00 - 16:00 (CEST)

Further information and link to dial in is available via QR-Code or [Machine Learning Workshop 2024 - RAVE: Research at alpha ven-](#)

RAVE ML Workshop final program

10:00   Tanja Grießmann, *Institute of Structural Analysis, Leibniz University Hannover*
Welcome and Introduction

10:15   Anish Venu, DNV Energy Systems
"RAVE Machine Learning end-to-end cycle: A complete overview on the RAVE ML Model"

11:00 - 11:15 Coffee Break

11:15   Farkhondeh Rouholahnejad and Martin Jonietz Alvarez, *Fraunhofer IWES*
"Wind Data Gap Filling and Localized Wind Profile Predictions via a Machine Learning Approach"

12:00 - 13:00 Lunch Break

13:00   Demitri Moros, *Renewables Research & Development, EDF Energy UK & IDCORE*
"Neural Networks for Offshore Wind Turbine Converter Failure Prognosis"

13:45 - 14:00 Coffee Break

14:00   Xu Ning, *Geophysical Institute, University of Bergen*
"Application of a NARX-Based Surrogate Model for Offshore Wind Turbine Structural Loads Prediction and Uncertainty Analysis"

14:45 - 15:00 Coffee Break

15:00   Dexing Liu, *Stuttgart Wind Energy (SWE), Institute of Aircraft Design, University of Stuttgart*
"Assessment of a Deep Learning Surrogate Model for Wind Turbine Load Estimation Using RAVE Data"

15:30   Discussion, Networking and Wrap Up

Presentation times include time for discussions and feedback from the audience.
The workshop is organized by the Federal Maritime and Hydrographic Agency (BSH) and is free of charge. Please register until September 30th, 2024 with an email to:
rave-forschungsarchiv@bsh.de .
Join a collaborative event as we explore the power and different use cases of machine learning in the expanding field of wind energy!
Please feel free to share this invitation with interested colleagues and fellow researchers to expand the RAVE community (Research at alpha ventus).
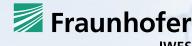
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