

Title: Xiaodong wind turbine blades

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We collected a large-scale dataset, i.e., 100 video pairs and over 55,000 images, of optical-thermal videos of blades in operational wind turbines to train and test the method.

**Dataset description** We captured 29 videos from a wind turbine situated at DTU Risø campus, Roskilde municipality, Denmark. These videos were recorded under diverse circumstances, ...

Currently, he is a postdoc with the Department of Wind and Energy Systems, Technical University of Denmark. His research interests include multi-view learning, multimodal learning, anomaly detection, ...

**Fingerprint** Dive into the research topics where Xiaodong Jia is active. These topic labels come from the works of this person. Together they form a unique fingerprint.

A modular Python tool for generating parametric wind turbine blade geometries and fully structured CFD meshes using OpenFOAM's blockMesh. Includes rotating mesh support.

We found that the unsteady aerodynamic characteristics of the wind turbine blade under yaw considering full 3D rotational effects are still a questionable topic.

In this review, the main design features and materials of wind turbine blades are presented and connected to the difficulties and opportunities related to the end-of-life management of ...

Wind turbine blades with hybrid fiber composite: Tensile properties and numerical verification. Wind turbine blades are the main component of wind turbines to capture effective wind energy, and require ...

In this paper, a dynamic stall control scheme for vertical-axis wind turbine (VAWT) based on pulsed dielectric-barrier-discharge (DBD) plasma actuation is proposed using computational fluid...

I'm thrilled to share that our (Xiaodong Jia and Xiao CHEN) latest research paper, titled "Unsupervised



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Wind Turbine Blade Damage Detection with Memory-Aided Denoising Reconstruction,&quot;...

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