

STS248

Aerodynamic Shape Optimisation for Reducing Aircraft Emission and Increasing Wind Turbine Efficiency

Ning Qin

Department of Mechanical Engineering
The University of Sheffield, Sheffield, S1 3JD, South Yorkshire, UK
n.qin@sheffield.ac.uk

Key words: Aerodynamic shape optimisation, novel aircraft configurations, offshore wind turbines, adjoint methods, ...

Abstract:

This session will include contributions from researchers working on advanced aerodynamic simulation and shape optimisation, such as hybrid RANS/LES, and shape design optimisation, such as adjoint based methods, for applications from the design of very large off-shore wind turbine blades to potential future large transport aircraft, such as the blended wing body and the truss-braced wing aircraft.

...