Special Issue

Turbulence and Transitional Modeling of Aerodynamic Flows

Message from the Guest Editor

The goal of this Special Issue is to provide a state-of-the-art summary of recent developments in the modelling of turbulent and transitional aerodynamic flows. Papers describing complex applications in aerospace, turbomachinery, automobile and other industries are also welcome. The is open to considering in any paper relevant to the subject matter of the Special Issue. Prof. Ramesh Agarwal

Keywords

- Reynolds-Averaged Navier-Stokes (RANS) Models of all types and categories
- Large Eddy Simulation including Wall-Modeled (WM) LES
- Hybrid RANS/LES (DES, DDES, IDDES,SBES)*
- Wall-Resolved (WR) Models
- Data Driven Modeling including improvement of Turbulence Models using Uncertainty Quantification (UQ) and Machine Learning
- Intermittency and Transition Modeling
- Applications to Aircraft, Turbomachinery, Automobiles and other industrial products

*DES= Detached Eddy Simulation, DDES = Delayed Detached Eddy Simulation
IDDES= Improved Detached Eddy Simulation, SBES= Stress Blended Eddy Simulation

Deadline for manuscript submissions

closed (30 June 2019)

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Fluids (ISSN 2311-5521) is an international journal on all aspects of fluids in open access format: research articles, reviews and other contents are released on the internet immediately after acceptance. You are invited to contribute a research article or a comprehensive review for consideration and publication in *Fluids*. The scientific community and the general public have unlimited free access to the content as soon as it is published. Please consider *Fluids* as an exceptional, exciting enterprise ready to reward your trust, attention, and active participation.

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