Special Issue

Rotary Wing Aerodynamics

Message from the Guest Editor

Rotary wing aerodynamics have historically been widely investigated due to the large number of applications of this discipline in several fields of engineering. A deeper insight into these complex aerodynamic interactions is required for the optimization of the design process for novel aircraft configurations as they affect their performance, structural dynamics, handling qualities and acoustic impact. Moreover, the investigation of the main issues of rotary wing aerodynamics is essential in the field of wind energy for the development of novel wind turbine concepts or for the design of wind farms. This Special Issue aims to collect experimental and numerical studies showing the most recent advancements in the field of rotary wing aerodynamics and aeroelasticity. Topics of interest for publication include but are not limited to:

- Rotorcraft aerodynamics;
- Dynamic stall;
- Blade vortex interactions (BVI);
- Wind tunnel tests;
- Computational fluid dynamics;
- Low order numerical methods;
- Aeroacoustics;
- Electric distributed propulsion vehicles (eVTOL);
- Tiltrotors;
- Wind turbines.

Guest Editor

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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