



Advances in Rotorcraft Dynamics

Guest Editor:

Prof. Dr. Sung N. Jung

School of Mechanical and
Aerospace Engineering, Konkuk
University, 120 Neungdong-ro,
Gwangjin-gu, Seoul 05029,
Republic of Korea

Deadline for manuscript
submissions:

closed (31 March 2024)

Message from the Guest Editor

Modern rotorcraft designs have constantly evolved to meet various lifting configurations, such as compound helicopters, tilt rotors, ducted fans, and multi-rotor AAM (Advanced Air Mobility), and stringent mission goals (e.g., particular speed, noise emission, and mobility requirements). Even with the advancements of sophisticated computational power, it is difficult to accurately capture the close coupling behavior between different structural (elastic) components and the unsteady aerodynamic environment. Low-level vibration/noise rotor technologies are critical due to the ever-increased demand for the “jet smooth” ride quality of rotary wing vehicles, particularly for enabling civil mobility missions.

This Special Issue aims to establish an outlook on recent advances in the areas of rotorcraft dynamics and aeroelasticity, focusing on the prediction of loads and vibration/noise and their reduction via active or passive means. Innovative modelling techniques that will improve our current understanding or knowledge of key rotorcraft aeromechanics are welcome.





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Prof. Dr. Konstantinos Kontis

School of Engineering, University of Glasgow, James Watt Building South, University Avenue, Glasgow G12 8QQ, Scotland, UK

Message from the Editor-in-Chief

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Aerospace Editorial Office
MDPI, Grosspeteranlage 5
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