

Special Issue

Advances in Rotorcraft Dynamics

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.

Guest Editor

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