Special Issue

Propeller Noise

Message from the Guest Editors

The growing interest in environmental issues related to the rapid growth of air and urban traffic has prompted institutions, the scientific community, and industries to devote significant efforts to reducing the impact of air transport systems. In this framework, electric propulsion has been recognized as one of the most promising approaches, inevitably bringing the investigation of propeller-driven systems back into focus. All this is in combination with the increasing development and use of remotely piloted systems (drones, UAVs), in which rotors are the main propulsion system as well as the primary noise source. Thus, the actual scenario requires innovative methods and approaches to design technological solutions for reducing aircraft noise, improving the rotor's applicability, and better understanding the physical phenomena behind these systems. The aim of the current Special Issue is to present the latest developments and future trends in physical modeling, measurement technology, and numerical simulation, as well as the practical applications of propeller systems.

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Aerospace adheres to rigorous peer-review as well as editorial processes and publishes high quality manuscripts that address both the fundamentals and applications of aeronautics and astronautics. Our goal is to enable rapid dissemination of high impact works to the scientific community.

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