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Gust Influences on Aerospace

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Deadline for manuscript submissions:
closed (30 June 2024)

Message from the Guest Editors

Dear Colleagues,

An important prerequisite for the design, assessment and certification of aircraft and their associated control systems is the quantitative specification of the environment in which the aircraft is intended to operate, for example, atmospheric wind gust. Wind gust is a common atmospheric turbulence in nature; however, it has very complex physical characteristics, including its scale, velocity profile, and power spectral density. Thus, it can affect both the natural atmosphere and human activities through a variety of perspectives. This Special Issue aims to form a comprehensive collection of essays regarding wind gusts in aerospace, including but not limited to gust properties, gust research methods, atmospheric influences, aerodynamic and aeroelastic responses of aircraft and engine, aircraft design considerations, gust alleviation measures, etc. Submissions are encouraged from all researchers engaged in aircraft gust aerodynamics and aeroelastics.

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Message from the Editor-in-Chief

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