

Special Issue

Probabilistic Modelling and Identification in Aircraft Structures

Message from the Guest Editors

In recent years, there has been considerable progress in quantifying the influence of uncertainty in the process of aircraft structural design. This has been complemented by calibrating stochastic models that represent the scatter of measured data. To this end, stochastic model updating methods have been developed, and their main objective is to estimate the ranges or distributions of the updating structural parameters using measured variability in output data. This Special Issue is focused on recent methods developed for uncertainty modelling, propagation, and identification in aircraft structures. Research papers both from academia and industry are considered. Papers in the area of stochastic modelling, propagation, and identification in aircraft structure components, aeroelasticity, and aircraft design can fit very well in this Special Issue. **Keywords:** Model

updating/calibration

Uncertainty propagation

Uncertainty identification

Uncertainty modelling

Static

Structural dynamics

Aeroelasticity

Structural joint

Aircraft design

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