

Special Issue

Structural Stability of Aerospace Structures

Message from the Guest Editor

Aerospace structures are lightweight structures, aimed at carrying the flight loads at minimal mass, to enable a viable economical usage. Under compression and/or shear forces, those structures are liable to buckling, changing their load carrying capacity. From the material point of view, Aerospace Structures have evolved from metal structures to laminated composite and/or sandwich-based structures, with the latest advancement being the variable angle tow (VAT) composites structures aimed at providing an optimal layup for increased load carrying capability at a reduced weight. The proposed Special Issue addresses this broad range of topics, and would welcome manuscripts on: (i) analytical and computational stability of aerospace structures; (ii) experimental results and procedures to increase the accuracy of the predicted buckling loads; (iii) numerical and experimental results of VAT composite structures; (iv) stability of lightweight structures in the presence of cutouts; and (v) behavior of aerospace structures under combined loadings. Any other related topics will also be most welcomed.

Guest Editor

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