

Mechanics & Industry

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Call for papers

Themed Issue on the

*Advances of junior researchers in
aerospace sciences*

Editors

- *Prof. Joseph Morlier, ISAE-SUPAERO, ICA, France*
- *Prof. Michael Kokkolaras, McGill University, Canada*

Background

Designing aerospace systems is a complex task requiring a plethora of engineering skills. The design problem incorporates several coupled disciplines, such as fluid dynamics, structural dynamics, thermodynamics, material science, manufacturing, and the list goes on. While engineering design research has advanced the field significantly, a number of challenges remains to be addressed.

Aim and Scope of the Themed Issue

Our particular focus in the context of this multidisciplinary design problem is on: how to innovate? Academia and industry depend largely on the talent of junior researchers (fresh PhDs and postdocs). We believe that we must now more than ever support our junior researchers during this time period of unprecedented amount and type of uncertainty. One way to accomplish that is by motivating their fresh ideas and work to be communicated directly without much delay even though it may not be completely mature yet as this can still provide a valuable stimulating intellectual experience and exchange. A relatively short deadline (September 14, 2020) is thus proposed to allow them to expose their current work in M&I. This Special Issue on 'Advances of junior researchers in aerospace sciences' aims to provide a quick overview of the main challenges of innovative multidisciplinary design addressed currently by PhDs and postdocs.

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Submissions

All kinds of relevant papers will be considered and vetted by a distinguished team of international experts: full length original research articles, reviews, letters, and technical briefs that contribute to topics including, but not limited to, Aerodynamics and Propulsion, Materials and Structures, Digital Engineering, Green Engineering, Multidisciplinary Design Optimization, Uncertainty Quantification, Artificial Intelligence and Machine Learning as applied to Aircraft, Spacecraft, and Unmanned Vehicle Design. Manuscripts can be submitted online via the journal's submission and peer review site. Please register choosing the title of the special issue '*Advances of junior researchers in aerospace sciences*'.

Please find the instructions for authors at:

<https://www.mechanics-industry.org/author-information/instructions-for-authors>

Submission deadline – 14th September 2020

Information: articles whose corresponding author is based at a French institution belonging to the list of the National Agreement members, can be published (after acceptance) in Open Access without any charge.

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2019 5-Year Impact Factor*: 0.836

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