

Special Issue

Multidisciplinary Collaborative Design of Aircraft

Message from the Guest Editors

Aircraft design is a complex field of systems engineering that involves interdisciplinary collaboration and integration. It is also the process of balancing the performance of subsystems such as aerodynamics, structural weight, and avionics... With the rapid development of aerospace technology, aircraft research now requires higher interdisciplinary collaborative design capabilities. It has evolved from traditional interdisciplinary collaborative design fields such as aerodynamics, structures, and stealth to tightly coupled, comprehensive design capabilities involving new disciplines such as artificial intelligence, avionics, and flight dynamics. Especially over the past two years, the rapid development of new types of aircraft, such as EVTOL, advanced drones, and hybrid-powered manned aircraft, has caused a significant decline in the adaptability of traditional multidisciplinary collaborative design. Therefore, the aim is to explore new methods and insights in interdisciplinary collaborative aircraft design within the context of artificial intelligence. This includes, but is not limited to, fields such as overall aircraft design, aerodynamics, structures, flight dynamics...

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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