Special Issue

Advances in Flight Dynamics Modeling and Control

Message from the Guest Editor

Flight dynamics modeling and control is a subject that deals with the modeling of aircrafts and the control of their nonlinear behaviors by applying nonlinear methods. Authors should develop the model using structural and fluid methods, calculate the complicated models by simulation, and verify the models by experiments. The motivation of this subject is to solve complicated nonlinear models using new models and proposed new findings. Flight dynamics is a subject of nonlinear dynamics. Nonlinear modeling methods can be applied to flight dynamics. The scope of the Special Issue should include computational fluid dynamics (CFD) research, with an emphasis on its recent advancements and its use in many industrial/academic applications. Papers on topics ranging from new physical modeling and discoveries to the correct treatment of difficulties inherent to numerical modeling of fluid flow systems are invited for submission. The relevant topics include, but are not limited to, the following: (i) rotor dynamics; (ii) nonlinear dynamics; (iii) numerical simulation and experimental verification; (iv) nonlinear vibration in rotor system; and (v) rotor partially filled with fluid.

Guest Editor

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Deadline for manuscript submissions

31 March 2026

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Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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