



Advance in Mathematical Methods for Space Dynamics and Spacecraft Systems Engineering

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Message from the Guest Editors

Dear Colleagues,

Space technologies are becoming extremely popular in the modern world, satisfying many needs of our society, which are increasing in quantity, variety, and complexity. Accordingly, space system designs must cope with a larger number of more stringent requirements and goals to be accomplished...

Therefore, I am pleased to invite you to submit your manuscript to a Special Issue of the journal *Mathematics* entitled “Advance in Mathematical Methods for Space Dynamics and Spacecraft Systems Engineering” that aims to explore, from a broad perspective, the most recent advances in the mathematical developments and methods that support space system design, considering both space dynamics and spacecraft system engineering. This includes the study of modern astrodynamics methods, trajectory optimization tools and original numerical schemes to analyse spacecraft orbital and attitude dynamics and efficient long-term propagation methods...

Indeed, the previous topics shall be considered as a limited, but not exhaustive, list of example topics. Moreover, both analytical and numerical mathematical methods are of interest.





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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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