Special Issue

Mathematical Methods of Astrophysics and Space Science

Message from the Guest Editors

We are excited to invite you to submit a paper for this Special Issue of *Mathematics*, entitled "Mathematical Methods of Astrophysics and Space Science". This issue focuses on using mathematical methods to explore astrophysical problems, particularly in space and planetary science. Areas of interest include comet origin and dynamics, origin and evolution of Kuiper Belt objects, search for Planet X, origin and evolution of rogue planets, captured objects in our solar system, stellar motion and star dynamics near our vicinity in the galaxy, star and star cluster formation and dynamics. dust particle accretion and dynamics, extra solar system objects (i.e., Oumuamua), interstellar and exoplanet space missions, and direct measurement of dark matter using spacecraft motion. The areas of interest in mathematics include the following: mathematical models of dark matter in our galaxy, dynamical systems, dynamics of the three, four, and n-body problem, weak stability and weak capture/escape, permanent capture, topological methods in studying dynamics, and magnetohydrodynamics.

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Deadline for manuscript submissions

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About the Journal

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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