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Planetary Radar Astronomy

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Message from the Guest Editors

Dear Colleagues,

Planetary Radar Astronomy is a discipline that utilizes radar electromagnetic waves to study celestial bodies both within and beyond the solar system. It primarily focuses on planets, Moons, and small objects within the solar system, such as Earth, Jupiter, Saturn, Pluto, and others. Furthermore, it can also be applied to the study of exoplanets and stars outside our solar system. Through the use of planetary electromagnetic wave detection, we gain a better understanding of the internal structures.

With development of the Planetary Radar Astronomy field has broadened the spectrum of observational techniques. Observations in the field of Planetary Radar Astronomy heavily rely on ground-based and space-based radar instruments. Over the past decade, with the advancement of deep space exploration, rover-based radar observations have gradually become an indispensable new tool in the field of Planetary Radar Astronomy. For instance, Chinese lunar exploration missions such as Chang'e-3, Chang'e-4, and Chang'e-5, the Mars mission Tianwen-1, and the Perseverance rover mission to Mars all carried in-situ radar instruments.

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Message from the Editor-in-Chief

The multidisciplinary *Universe* journal is aiming to follow and, hopefully, to lead to the largest extent as possible the ever-self renovating threads which weave mathematical theories with our understanding of the magnificent natural world. On behalf of all the distinguished members of the editorial board, I extend my welcome to this new journal and look forward to hearing from the interested contributors and learning about their valuable research.

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