

A New Horizon in Geospatial and Earth System Science

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It is with immense pleasure and a profound sense of responsibility that I welcome our readers, authors, reviewers, editorial colleagues and the global scientific community to the inaugural issue of Geospatial and Earth System Science (GESS). The publication of Volume 1, Number 1 represents not merely the launch of a new scholarly journal, but the beginning of an enduring academic platform dedicated to advancing scientific understanding of the Earth's dynamic systems through interdisciplinary research and geospatial innovation.

The twenty-first century has witnessed unprecedented environmental transformations driven by rapid urbanization, climate variability, land-use change, resource depletion, biodiversity loss, pollution, and increasing natural hazards. These complex global challenges transcend disciplinary boundaries and demand integrated scientific approaches capable of generating reliable evidence for sustainable decision-making. Simultaneously, remarkable developments in Geographic Information Systems (GIS), Remote Sensing, geospatial modelling, artificial intelligence, and Earth observation technologies have revolutionized our capacity to monitor, analyse, and interpret environmental processes across multiple spatial and temporal scales.



Against this backdrop, Geospatial and Earth System Science (GESS) has been established with a clear vision: to serve as an international forum for the dissemination of original, rigorous, and impactful research that enhances our understanding of geographical environments, Earth system processes, and the application of geospatial technologies in addressing contemporary scientific and societal challenges. Our objective is to foster interdisciplinary dialogue by bringing together researchers from geography, geology, environmental science, geoinformatics, public health, and allied disciplines. The journal adopts an open-access publishing model to ensure that scientific knowledge is freely accessible to researchers, educators, practitioners, policymakers, and students across the world. We believe that unrestricted access to scholarly research enhances scientific collaboration, accelerates innovation, and strengthens the contribution of science to society. Every manuscript submitted to GESS undergoes a rigorous double-blind peer-review process designed to uphold the highest standards of academic integrity, originality, methodological soundness, and ethical publication practices.

The establishment of a scholarly journal is a collective endeavour requiring dedication, vision, and unwavering commitment to academic excellence. I express my sincere gratitude to the Editorial Board members, reviewers, and advisory committee whose expertise and thoughtful contributions have laid the foundation for this journal. Their willingness to devote time and scholarly judgment ensures that every publication meets internationally accepted standards of quality and ethical practice.

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I also extend my heartfelt appreciation to the authors who entrusted their research to GESS during its inaugural phase. Publishing in a newly established journal requires confidence in its vision and future, and we deeply value the trust our contributors have placed in us. Their scholarly work forms the cornerstone upon which the journal's reputation and academic impact will continue to grow. I would like to acknowledge the efforts of the ManEd Research Foundation, whose commitment to promoting research, education, and scientific innovation has made the establishment of this journal possible. The Foundation's support reflects its broader mission of strengthening academic scholarship and facilitating the dissemination of knowledge that contributes to sustainable development and societal well-being.

On behalf of the Editorial Board, I warmly invite researchers, academicians, professionals, and young scholars from around the world to contribute their original research, review articles, methodological advancements, and interdisciplinary studies to future issues of GESS. Together, we can build a vibrant scholarly community that advances scientific understanding of the Earth's systems and promotes innovative geospatial solutions for the challenges of our changing world.

As we proudly present this inaugural issue, I express my sincere gratitude to our readers, contributors, reviewers, and editorial colleagues for joining us on this academic journey. We look forward to your continued support and valuable contributions in shaping **Geospatial and Earth System Science** into a journal of international distinction.

Regards,
Prof. R. Jaganathan
Editor-in-Chief
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