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Special Issue

Call for Papers – Journal of Sciences, Islamic Republic of Iran (JSIRI)

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Guest Editor: Mohsen Mohammadazdeh, Department of Statistics, Tarbiat Modares University, Tehran, Iran.

Spatial Statistics in a Data-Rich Era: Theory, Methods, and Interdisciplinary Frontiers

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Dear Colleagues,

It is my great pleasure, on behalf of the Editorial Board of the *Journal of Sciences, Islamic Republic of Iran (JSIRI)*, to announce a Call for Papers for a special issue dedicated to **Spatial Statistics**. Spatial statistics today occupies a pivotal position at the intersection of mathematical theory, computational science, and real-world empirical inquiry: it is simultaneously driven by the explosion of geo-referenced data and the rapid evolution of statistical computing and machine learning. This special issue is an opportunity to reflect on that methodological depth and interdisciplinary reach.

We are living through a period of exceptional transformation in spatial data science. High-resolution remote sensing, environmental sensor networks, and mobile tracking technologies now generate massive, complex spatial and spatio-temporal datasets at unprecedented scales. At the same time, advances in Bayesian hierarchical modeling, Gaussian processes, deep spatial learning, and scalable inference algorithms have dramatically expanded our ability to model complex dependencies across space and time. The *Journal of Sciences* is committed to publishing work that engages with this transformation at the highest level of rigor and originality.

This special issue spans the full spectrum of spatial statistics, from geostatistics, spatial point processes, and areal/lattice data analysis, to spatio-temporal modeling, spatial econometrics, and the interdisciplinary frontiers that unite these methodologies with environmental science, epidemiology, ecology, and urban analytics. We welcome original research articles, systematic reviews, perspectives, and methodological or computational contributions.

We also draw particular attention to emerging areas where the scientific literature remains sparse and where timely, high-quality contributions would have the greatest impact: scalable inference and approximation methods for massive non-stationary spatial datasets; spatial causal inference and extreme value modeling under climate change; non-Euclidean spatial domains (such as stream networks and manifolds); and the principled integration of physical models with spatial machine learning. The JSIRI welcomes work from any domain of spatial statistics distinguished by intellectual courage, theoretical soundness, and scientific integrity.

I warmly invite you to submit your finest work to this special issue. The *Journal of Sciences* has long stood for scientific excellence, rigorous peer review, and a commitment to ideas that matter. All manuscripts will go through the standard double-blind peer-review process of the *Journal of Sciences*, University of Tehran. Regarding manuscript format, authors are encouraged to follow the "Guide for Authors" available on the journal's website. In your cover letter, please clearly state that your manuscript is submitted for the Special Issue on **"Spatial Statistics"**. For any inquiries about the scope, please contact: mohsen_m@modares.ac.ir

I look forward with great anticipation to the contributions that our community will bring to this landmark collection.

Prof. Mohsen Mohammadzadeh,
Guest Editor for Special Issue on Spatial Statistics
[http://jsciences.ut.ac.ir/E-mail:jsciences@ut.ac.ir]