

## Advances in Computational Approaches for Spatial Analysis and Modeling

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### Message from the Guest Editors

Dear Colleagues,

Spatial analysis and modeling (SAM) serves as a powerful tool for understanding the complexity of geospatial phenomena. With the availability of high-resolution geospatial data and the increasing complexities of geospatial analytic approaches, the resolution of geospatial problems using these data and approaches poses significant computational challenges.

The past decades have witnessed advances in both computing and modeling performance through advanced computational approaches. These advanced computational approaches comprise machine learning algorithms (e.g., artificial neural networks, random forests, evolutionary algorithms, and swarm intelligence) and cyberinfrastructure (e.g., high-performance computing, cloud computing, and web technologies). With their powerful and intellectual abilities, advanced computational approaches for SAM have gained increasing attention from researchers interested in the study of spatially explicit phenomena.





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## Message from the Editor-in-Chief

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