## **Special Issue**

# Optimization of Statistical Metrics for Satellite Precipitation Products: Towards Improved Hydrological Modeling

## Message from the Guest Editors

Elevate hydrological modeling with precisely optimized satellite precipitation data! Refining statistical measures is crucial to enhancing the accuracy and reliability of rainfall information collected from space. By systematically improving metrics such as RMSE and bias, we enhance the accuracy of how satellite products align with ground rainfall measurements. This crucial optimization leads to more reliable flood predictions. informed climate analysis, and enhanced water resource management. The integration of advanced techniques, including machine learning and multisensor fusion, further sharpens these datasets. The outcome is more robust hydrological simulations, empowering better-informed decisions for critical water-related challenges and a deeper understanding of weather extremes

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## **About the Journal**

## Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

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