



Uncertainty Quantification: Latest Advances and Applications

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Message from the Guest Editors

The aim of this Special Issue is to bring together original research articles and review articles highlighting recent advances in theoretical modeling, numerical simulation, and experiments in uncertainty quantification. We also encourage submissions that investigate interesting applications involving uncertainty quantification. Research integrating machine learning or data-driven techniques is particularly welcome.

Potential topics include but are not limited to the following:

- Data-driven and machine learning techniques in uncertainty quantification.
- Novel theory of modeling uncertainty problems.
- Numerical algorithms for alleviating computational burden and/or enhancing accuracy in uncertainty quantification.
- Sensitivity analysis and optimization based on uncertainty quantification.
- Novel experimental techniques related to uncertainty quantification.
- Case studies or advanced applications of uncertainty quantification in engineering and social science.





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Message from the Editor-in-Chief

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