

## *Editorial*

# **Computational Methods for Engineering Science**

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This special issue attempts to cover the recent advances on various aspects of theories, analyses, and applications of computational methods in engineering science, reflecting the state of the art in computational methods and their frameworks, applications, networking technologies, and new and advanced engineering applications in emerging technologies such as the bioscience and biotechnology, nanoscience and nanotechnology, numerical modeling, simulation and analysis, and material sciences.

The topics covered by the articles including in this special issue encompass computational mechanics, ocean and offshore engineering, computational fluid dynamics, computational mathematics and statistics, computational physics, computational material sciences, multiscale modeling, disaster simulation and analysis, element-free/meshless/mesh-free methods and dimension-reduction methods, geometric and material nonlinear analyses, damage, fracture and fatigue, contact mechanics and friction, smart structures and health monitoring, structural optimization, nanomechanics, biomechanics, inverse and coupling problems, and reliability theory and application.

We hope that this special issue will be cited for recent advances in these research areas.

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