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Modeling, Simulation and Data Analysis
Main Editors: C. Dawson; I. Yotov; M.F. Wheeler

► Covers mathematical modeling, simulation, data analysis, uncertainty, and high performance computing
► Focuses on quantitative aspects of models, mathematical and numerical methods
► Builds multidisciplinary collaboration among mathematicians, engineers, chemists, physicists and geoscientists
► Facilitate exchange of information across disciplines

Computational Geosciences publishes high quality papers on mathematical modeling, simulation, numerical analysis, and other computational aspects of the geosciences. In particular the journal is focused on advanced numerical methods for the simulation of subsurface flow and transport, and associated aspects such as discretization, gridding, upscaling, optimization, data assimilation, uncertainty assessment, and high performance parallel and grid computing.

Papers treating similar topics but with applications to other fields in the geosciences, such as geomechanics, geophysics, oceanography, or meteorology, will also be considered.

The journal provides a platform for interaction and multidisciplinary collaboration among diverse scientific groups, from both academia and industry, which share an interest in developing mathematical models and efficient algorithms for solving them, such as mathematicians, engineers, chemists, physicists, and geoscientists.

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