



Multiscale Turbulent Transport

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Message from the Guest Editors

Dear Colleagues,

Turbulent transport is currently a great subject of ongoing investigation at the interface of methodologies running from theory to numerical simulations and experiments, and covering several spatio-temporal scales. Mathematical analysis, physical modelling and engineering applications represent different facets of a classical, long-standing problem still far from achieving a thorough comprehension. The goal of this Special Issue is to offer recent advances covering subjects identified in the keywords (and not only). Authors are welcome to submit regular articles, review papers focused on the state-of-the-art and the progress made over the last few years, as well as new research trends.

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Guest Editors

Keywords

- Multiscale analysis in turbulent transport processes
- Lagrangian and Eulerian descriptions of turbulence
- Advection of particles and fields in turbulent flows
- Ideal or non-ideal turbulence
(unstationary)\inhomogeneous\anisotropic\compressible)
- Turbulent flows in bio-fluid mechanics and magnetohydrodynamics
- Control and optimization of turbulent transport





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