Special Issue

Convection in Fluid and Porous Media

Message from the Guest Editor

Investigating and understanding of thermal/isothermal and multicomponent-diffusive convective flows in fluids and saturated porous media would enhance the design and performance of a variety of engineering and environmental application processes. Newtonian and non-Newtonian working fluids are commonly encountered in these processes, such as in thermal and chemical industrial processes, slurry transporting, food processing, crystal growth, hydrology, polymer engineering, geophysics, mixtures separation, gas storage and heat exchangers.

This Special Issue is dedicated to research on recent advances in modelling and experimental thermal/isothermal and thermosolutal convective flows in closed or open systems and in external boundary layer flows. Comparisons and validation of modelling results with experimental or past published results are encouraged. For steady or unsteady modelling investigations, time and grid size sensitivity studies are required to assess the fidelity of the modelling methods. Studies toward industrial applications are highly recommended and those related to pure fundamental research with physical analyses are also accepted.

Guest Editor

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