Special Issue

Cardinal Fluid-Mechanical Principles as a Unifying Tool for Predicting and Controlling Hydro-Geo-Morphological, Biological, and Environmental Risks

Message from the Guest Editors

Fluids are ubiquitous in nature: from the atmosphere where we live and breathe, to the oceans, the seas, the lakes, and the rivers that provide food and allow for transportation and commerce, to the natural reservoirs that store water for potable and agricultural uses or petroleum and methane gas allocated for industry. Moreover, fluids are the main component of the human body, to which they provide nutrients and oxygen. The fundamental role of fluids in life has always been reflected in the interest of science in them—starting back in the 3rd century B.C., with Archimedes and static buoyancy, via Bernoulli and his energy conservation theorem, Newton and the basic correlation between fluids internal friction and kinematic characteristics of flow, D'Alembert and the principle of continuity, Navier and the equation of momentum for viscous fluids, Reynolds and Prandtl and their crucial contribution to the study of turbulence, De Saint-Venant and his benchmark one-dimensional theory for streams, up to the most recent numerical and/or stochastic fluid–mechanical declinations.

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Editor-in-Chief

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