



CALL FOR PAPERS

ICMGG 2020
Jul 17-18, 2020
Helsinki, Finland

The International Research Conference is a federated organization dedicated to bringing together a significant number of diverse scholarly events for presentation within the conference program. Events will run over a span of time during the conference depending on the number and length of the presentations.

ICMGG 2020 : International Conference on Mathematical Geophysics and Geomechanics is the premier interdisciplinary forum for the presentation of new advances and research results in the fields of Mathematical Geophysics and Geomechanics. The conference will bring together leading academic scientists, researchers and scholars in the domain of interest from around the world. Topics of interest for submission include, but are not limited to:

Mathematical geophysics
Earth systems and planets
Ocean, atmosphere and climate and planetary geophysics
Fluid and granular flows
Gravitational flows, granular flows and sediment transport
Hot and cold flows
Seismology, tectonics and rock mechanics
Imaging and event detecting techniques
Seismic waves
Mechanics of faulting and rocks
Tectonics and solid earth geophysics
Dynamics of seismicity

Cross-disciplinary approaches, methods and data
Geomorphology
Non-linear processes
Computational geophysics
Experimental geophysics
Low frequency seismology and three-dimensional structure
Free-oscillation coupling theory
Surface waves in weakly heterogeneous media
On the connection between ray theory and scattering theory for surface waves
Wave propagation problems in inhomogeneous media
Elastic wavefield inversion and the adjoint operation for the elastic wave equation
Subspace methods for large-scale nonlinear inversion