

THEMATIC SESSION PROPOSAL: Geotechnics and Geoengineering

Co-organized by:

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Computational methods are becoming increasingly relevant in geotechnical engineering. This session aims to provide a discussion forum for researchers and practitioners working on numerical methods in geotechnics and related fields.

Contributions relevant to this session would cover development and application of numerical methods for geotechnical and geoengineering problems, including, but not limited to, constitutive models and failure criteria, fluid flow, model calibration and validation, numerical predictions and comparison with real behaviour (in-situ or from the laboratory), among other possible applications. The range of possible applications is wide and includes problems such as foundations, retaining walls, slopes, dams, tunnels. Articles on other recent geoengineering applications (carbon sequestration, hydraulic fracturing, waste containment, etc.) are also welcome.

The session would be co-organized by Rafael Jiménez (Univ. Politécnica de Madrid) y José V. Lemos (LNEC). They have previously collaborated organizing a similar session in previous editions of this congress, which have obtained an increasing success rate in terms of attendance.