Acta Geotechnica

An International Journal for Geoengineering

Editor-in-chief: W. Wu
Editors: R. I. Borja, G. Viggiani, H. S. Yu

► An international journal compiling all fields of geoengineering
► Focus on interplay between geomechanical models and engineering applications
► Strong international coverage of cutting edge research in geoengineering
► Fast publication times

New Journal as of
JANUARY 2006
Acta Geotechnica

Aims and Scope

Acta Geotechnica is an international journal devoted to the publication and dissemination of basic and applied research in geotechnology – an interdisciplinary field dealing with geomaterials (soils and rocks). Emphasis is placed on the interplay between the geomechanical models and their engineering applications. The journal welcomes original research papers on the fundamental concepts in geomechanics and their novel applications in geotechnology based on experimental, analytical and/or numerical approaches. In addition to the scientific merit, the contributions for publication are selected for their application potential in geotechnology leading to reliable prediction and rational and sustainable design.

The main purpose of the journal is to foster deep understanding of the fundamental mechanisms behind the multiscale phenomena and processes in geomaterials, from kilometer-scale problems as they occur in geoscience, to a much finer scale up to and including the nano-scale, as well as their potential impact to geotechnology. The journal intends to capture and archive the advancement in the field of geotechnology in a timely manner and in one place.

The journal contains research papers, review articles, short notes and letters to the editors. The topics of interest include experimental, analytical and numerical investigations into the mechanical, physical, hydraulic and thermal properties of geomaterials as multiphase media under different external agencies, e.g. monotonic, cyclic, static, dynamic, transient and long-term loading, drawing upon the various applications in geotechnology, e.g. foundation, dam, mining, tunnelling, geohazard, geoenvironmental and petroleum engineering.

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Forthcoming Papers:

- On a viscoplastic model for rocks with mechanism-dependent characteristic times, A. F. Fossum, R. M. Brannon (USA)
- The nanogranular nature of shale, F.-J. Ulm, Y. Abousleiman (USA)
- Conditions for instabilities in collapsible solids including volume implosion and compaction banding, R. I. Borja (USA)
- Compaction bands and induced permeability reduction in Tuffeau de Maastricht calcarenite, T. Baxevanis, E. Papamichos, O. Flornes, I. Larsen (Greece)
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