

# CALL FOR PAPERS

## Latest Findings on Micro to Macro Mechanics of Geomaterials

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# GÉOTECHNIQUE LETTERS

Recent research has yielded noteworthy findings on the impact of micro- to meso-scale phenomena on the overall macro-behaviour of soils and rocks. The phenomena concerned can be mechanical, physico-chemical, thermal, and electromagnetic, and results may include changes in the sorting of soil particles, in soil fabric and bonding, or in material texture and fissuring. Up-to-date technologies are broadening the scope of micro- or meso-analysis, among them high-resolution scanning electron microscopy, image processing, focus ion beam nanotomography, X-ray computerized tomography, grain shape measurement, and mercury intrusion porosimetry, with results further refined by micro- to meso-data processing procedures.

Such research studies can improve the understanding of both the macro-response of geomaterials and of the relationships between the behaviour of classes of material and micro-features. This knowledge in turn may enhance the modelling of material behaviour.

This themed issue of *Géotechnique Letters* will publish the latest findings about the micro-to-macro-mechanics of geomaterials, with the emphasis on 'to', i.e., connecting micro- or meso-phenomena to macro-behavioural aspects. In this context, authors are invited to submit either experimental or modelling contributions that provide new evidence and understanding, either on phenomena at the micro- or meso-scale that generate observable trends in macro-response, or on micro- or meso-scale effects of macro-scale loading processes.

Experimental investigations at the micro- or meso-scale are welcome if they reveal the sources of macro-behavioural features. The same applies to theoretical research illustrating micro-phenomena causing macro-response. Alternative numerical-modelling applications are welcome if they support the interpretation of micro-phenomena and their connection to macro-behaviour.

*The Letters for this themed issue will also need to comply with the Aims and Scope of Géotechnique Letters.*

### AIMS & SCOPE

*The scope of the journal includes the same broad range of geotechnical engineering as Géotechnique, while the shorter format and express publication will suit the presentation of novel or emerging ideas and design, current case studies of the results arising from recently completed research, or work in progress that may be of immediate interest to the wider geotechnical community. Papers are placed clearly in the context of the latest research or engineering practice and contain sufficient information to allow readers to review critically the conclusions reached.*

*Papers are limited to 2000 words (main text only, excluding article title, 200-word abstract, figures, tables, figure captions, and references).*

Deadline for abstract submission: 10 April 2018

Communication of accepted abstracts: 10 May 2018

Paper submission deadline: 30 October 2018

First reply of the peer review: 20 December 2018

The accepted Letter will be published in the first GLETT issue delivered after the Letter acceptance. The Letter will be acknowledged as 'Letter accepted for the Themed Issue on "Latest Findings on Micro to Macro Mechanics of Geomaterials" .

# GÉOTECHNIQUE LETTERS

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