

**International Symposium on
Geomechanics and Geotechnics:
From Micro to Macro
(IS-Shanghai 2010)
Oct. 10, 2010, Tongji University,
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Organized by:

**Tongji University, China
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First announcement and
call for abstracts**

Main topics

Micro- / macro-characterization

Natural / disturbed soils
Dry / partially saturated soils
Rocks / cemented materials
Sands / clays
Non-terrestrial soils
Experimental techniques
Microscopy / Imaging
Visualization of particle movement

Discrete element modelling

Particle shape, size and grading
Dry / partially saturated soils
Crushable grains
Small strain, yielding and failure
Creep and rate effects
Shear bands / compaction bands
Vibrations / dynamics
Granular flow

Engineering applications

In-situ tests
Slope stability
Foundations
Landslides and granular flow
Tunneling engineering
Hydraulic engineering
Railway and pavement engineering
Reservoir geomechanics and well-boring

Introduction

Soils are composed of grains but they are generally treated as continuous in the classical framework of geomechanics. Their macroscopic response under loading, such as their non-linearity and anisotropy, is controlled by their micro-structure, the characteristics of the grains and the disposition of contacts between them. There have been rapid advances in technology both to investigate the microscopic properties of soils, and to simulate their granular behaviour explicitly through Discrete Element Method (DEM). DEM was originally used to reproduce element tests, but it is now being advocated for boundary-value problems. This symposium aims to provide an opportunity for the exchange of ideas and information on experiments, numerical models and engineering applications related to the discrete nature of geomaterials.

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Important dates:

Submission of abstracts: before **May 1, 2009**;

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Submission of full papers: before **January 1, 2010**;

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