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Conference Themes

The theme of ICADD-10 is to summarise the progress of discontinuous numerical methods in the past decades and to advance toward the future development and application of discontinuous methods in geomechanics and geoengineering. The technical presentation will cover a wide scope of discontinuous numerical methods from algorithms and mechanics, to modelling techniques and application, including, but not limited to the following topics:

- Key Block Theory and Engineering Applications
- Discontinuous Deformation Analysis (DDA) Method
- Numerical Manifold Method (NMM)
- Distinct/Discrete Element Method (DEM)
- Applications of UDEC, 3DEC and PFC codes
- Meshless Method and Engineering Applications
- Contact Algorithms and Joint Contact Modelling
- Interfacing of Discontinuum and Continuum Methods
- Wave Propagation in Rock Joints and Jointed Rock Masses
- Deformation Analysis of Heterogeneous Materials
- Multi-Scale and Multi-Physics in Discontinuous Modelling
- Other Advanced Analytical and Numerical Methods in Rock Engineering
- Experiment and Measurement of Discontinuous Deformation
- Case Studies of Engineering Projects

Abstract Submission

Prospective authors are invited to submit abstracts on various aspects within the conference schemes. Abstracts should be about 300-500 words long, with a title, authors' names and affiliations, and email addresses, and be sent by email to the Conference contact (gaofeng.zhao@epfl.ch) before the deadline.

Abstract Submission Deadline: 15 January 2011.

Keynote Speakers

Keynote presentations will be given by a number of distinguished speakers to highlight some of the latest development in numerical methods and applications to engineering projects, including a summary report by Dr Gen-hua Shi on the progresses and prospects of DDA and manifold method. The list of keynote presentations will be announced later.

Discussion on Future Development

A plenary discussion session will be organised to discuss the future development of discontinuous numerical methods, including new mathematical and analytical techniques, micromechanics manifold method, multi-physics modelling, coupling of different numerical methods, large scale engineering modelling, estimating model parameters from engineering properties, application of modelling results in engineering practice, and promotion of discontinuous numerical methods in geomechanics research and geotechnical engineering.

	Mon, 5 Dec 2011	Tue, 6 Dec 2011	Wed, 7 Dec 2011	Thu, 8 Dec 2011
Morning		Registration Opening Keynotes	Keynotes	Discussion Closing
Afternoon	Registration	Presentations	Presentations	Site visits
Evening	Reception		Banquet	