

The 10th International Conference on Analysis of Discontinuous Deformation ICADD-10



Waikiki, Hawaii, 6–8 December 2011

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Invitation

The Discontinuous Deformation Analysis (DDA) method has been making progress as a powerful numerical method in rock mechanics and engineering for the last two decades, particularly in dealing with understanding the behaviour of discontinuous rock masses at engineering scale. Since the first conference in 1995, ICADD has had 9 meetings and the last one in Singapore received overwhelming response. The ICADD series will have its 10th meeting (ICADD-10) in 2011. As the previous meetings, ICADD-10 aims to exchange ideas and new developments in various discontinuous analysis methods, and to promote the application of the developed numerical methods in rock engineering. In addition, immersed with new modelling methods and techniques, ICADD-10 will also be a milestone event to look back on the past progress and look forward to the future development of discontinuous deformation analysis and other discontinuous methods.

We would like to invited colleagues and friends in the numerical modelling and rock mechanics community to join this event to celebrate and to anticipate the progress of discontinuous numerical methods.

Conference Themes and Abstract Submission

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 topics below.

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 discontinuous and continuous 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.

Prospective authors are invited to submit abstracts on the above topics. Abstracts should be about 300-500 words long, with a title, authors' names and affiliations, and email addresses, and be sent through the ICADD-10 website, <http://www.ICADD10.org> (under construction and available soon) before the deadline: **15 January 2011**.

Conference Venue and Date

ICADD-10 conference will take place in Hawaii, at the Hotel Sheraton Waikiki, situated on the best stretch of the legendary Waikiki beach. The conference date is in early December, which is the low tourist season, just before the high tourist reason of the Christmas period. Information on travel and tourism of Hawaii can be found easily from travel agents and at website <http://www.hawaiiauthority.org>.

Further Information and Contact

Further information will be available at conference website <http://www.ICADD10.org>. Enquires can be made the website by click the contact or email to contact@icadd10.org. ICADD-10 Bulletin 1 is under preparation and will be sent to you and downloadable at the website when it is ready.

