

Keynote 11

Professor Gen-hua Shi

DDA, California

Keynote Title

Contact Theory – The Foundation of
Discontinuous Computations



Professor Genhua Shi currently is a Professor at the College of Engineering & Information Technology, University of Chinese Academy of Sciences. He serves as a Senior Consultant to the China Renewable Energy Engineering Institute and the Technical Director of the DDA Centre of Yangtze River Scientific Research Institute. He is the chairman of the DDA Company in California, USA.

He obtained his BSc and MEng from Beijing University, China respectively in 1963 and 1968, and his PhD from University of California at Berkeley, USA in 1988. He established the Key Block theory and Discontinuous Deformation Analysis method. They are now widely studied and applied in rock mechanics and rock engineering fields. He is the inventor of the Numerical Manifold Method, a novel method for the analysis of both continuous and discontinuous material behaviour.

He has been actively involved in many worldly famous projects related to rock mechanics in-situ test, nuclear waste storage, blasting design of rock engineering, stability analysis of rock slopes and rock foundations, underground excavation support design and construction, and dam design and dam foundation analysis. His papers have appeared in profound journals, and in significant conferences such as the series of North American Rock Mechanics Symposiums, the series of Conferences on Analysis of Discontinuous Deformation. He also received the China Natural Science Award and some other international awards.