UNDERGROUND LUNCH&LEARN

Tech Talk: Methods of Back-Analysis of Tunnel Response

Heuristic methods refer to experience-based techniques for problem solving, learning and discovery that find a solution which is not guaranteed to be optimal, but good enough for a given set of goals. Two heuristic methods, Simulated Annealing (SA) and Differential Evolution Genetic Algorithm (DEGA), will be explored, including their implementations. Applications in a real case of a twin tunnel in China will be presented.

Dr. Marte Gutierrez is the James R. Paden Distinguished Professor at the Department of Civil and Environmental Engineering and the Director of the University Transportation Center for Underground Transportation Infrastructure (UTC-UTI) at Colorado School of Mines. Formerly, he was Post-Doctoral Fellow, Senior Engineer and Program Leader at the Norwegian Geotechnical Institute, and Associate Professor/Professor at Virginia Tech. He has been involved in several landmark and groundbreaking Civil Engineering projects while working in Norway. He is a member of the Editorial Board of five International Journals, and is the recipient of the Geotechnical Research Medal from UK's Institute of Civil Engineers, the Peter A. Cundall Honorable Mention Award, the Applied Rock Mechanics Research Award from the American Rock Mechanics Association, and the Kwanghua Visiting Professorship from Tongji University.

WED., OCTOBER 25
12:00-1:00 P.M.
BERTHOUD HALL 243

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