Recent Advances in Geo-Environmental Engineering, Geomechanics and Geotechnics, and Geohazards

Proceedings of the 1st Springer Conference of the Arabian Journal of Geosciences (CAJG-1), Tunisia 2018

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This edited volume contains the best papers in the geo-engineering field accepted for presentation at the 1st Springer Conference of the Arabian Journal of Geosciences, Tunisia 2018. In addition, it includes 3 keynotes by international experts on the following topics: 1. A new three-dimensional rock mass strength criterion 2. New tools and techniques of remote sensing for geologic hazard assessment 3. Land subsidence induced by the engineering-environmental effects in Shanghai China. The book is useful for readers who would like to get a broad coverage in geo-engineering. It contains 11 chapters covering the following main areas: (a) Applications in geo-environmental engineering including soil remediation, (b) Characterization of geo-materials using geological, geotechnical and geophysical techniques, (c) Soil improvement applications, (d) Soil behaviour under dynamic loading, (e) Recent studies on expansive soils, (f) Analytical and numerical modelling of various geo-structures, (g) Slope stability, (h) Landslides, (i) Subsidence studies and (j) Recent studies on various other types of geo-hazards.

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