

Special Issue on “Advancements in Geomechanics and Engineering”

Preface

We would like to present the special issue of the international journal *Geomechanics and Engineering* (ISSN: 2005-307X) on *Advancements in Geomechanics and Engineering*. As *Geomechanics and Engineering* has strong reputation for quality in the field of soil mechanics and geotechnical engineering, this special issue also devotes itself to introducing validated emerging technologies from laboratory-scale studies to field applications.

This special issue is an extension of the success of the 2022 International Conference on Geomechanics and Engineering (ICGE22) held on August 18, in Seoul, Republic of Korea. Following the conference, papers that focus on cutting-edge and environmentally friendly geotechnical engineering methods were chosen, with fully updated paper submission and peer-review procedures. In this spirit, 11 scientific articles are presented in this volume as:

- Estimating the unconfined compression strength of low plastic clayey soils...
- New energy partitioning method in essential work of fracture (EWF) concept...
- Effects of activated carbon on the compressive strength of Portland cement concrete
- Alkaline induced-cation crosslinking biopolymer soil treatment and field implementation...
- Triaxial shear behavior of cement-treated sand under high confining pressures
- Stability analysis of infinite rock slopes with varying disturbances based on the Hoek–Brown...
- Effect of reaction temperature and time on the formation of calcite precipitation...
- Correlations between variables related to slope during rainfall and factor of safety...
- Analysis on inclined or rounded tip piles using 3D printing technology and FE analysis
- Dynamic behavior of submerged floating tunnels at the shore connection considering...
- Compressibility of fine-grained sediments based on pore water salinity changes

Each paper offers insightful research and suggestions regarding how to advance geomechanics and geotechnical engineering. We value each and every author's devoted research, as well as the reviewers' sincere contributions to peer reviews.

We believe that this excellent collection of articles will be a useful tool for readers of *Geomechanics and Engineering* and will inspire more investigation into the dynamic field of cutting-edge and environmentally responsible geotechnical engineering.

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