

Chicago, Illinois | May 28–31, 2024

## MS0501 Computational Geomechanics EMI/PMC 2024

2024

<u>Organizers</u>: Qiushi Chen (Clemson University); Craig Foster (University of Illinois at Chicago); Xiaoyu Song (University of Florida); Shabnam Semnani (University of California San Diego); Fushen Liu (Zhejiang University); Ronaldo Borja (Stanford University)

This mini-symposium will provide a forum for presentations and discussions of the stateof-the-art and state-of-the-practice in computational geomechanics. Topics of interest include but are not limited to (1) development, implementation, and validation of advanced constitutive models in geomechanics; (2) particle-based numerical methods (DEM, MD, etc.); (3) computational models and algorithms for multiscale and multiphysics problems; (4) numerical modeling of fracture, damage, and fragmentation processes in geomaterials; (5) local/nonlocal theories and models (mesh-based and mesh-free); (6) applications and case studies of numerical methods in geo-energy and earthquake engineering; (7) validation and verification of numerical models and algorithms in geomechanics; (8) deep learning and data-driven approaches in geomechanics; (9) new challenges and (geomechanics extraterrestrial exploration. nature-inspired opportunities in geomechanics, metamaterials, etc.).

## Abstract Submission:

Deadline: December 31, 2023 Link: https://submissions.emi-pmc2024.org/

## **Conference Information:**

Engineering Mechanics Institute Conference and Probabilistic Mechanics & Reliability Conference (EMI/PMC 2024)

Chicago, Illinois I May 28-31, 2024 https://www.emi-conference.org/