

CouFrac 2022

November 14-16, 2022 | Berkeley, USA



3rd International Conference on Coupled Processes in Fractured Geological Media: Observation, Modeling and Application

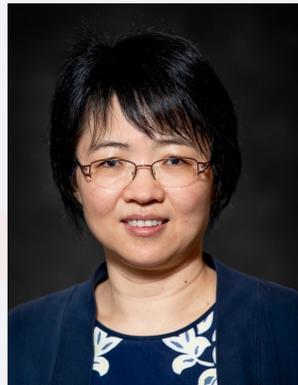


Special Session: Machine Learning for Coupled Processes in the Earth Sciences and Engineering

Distinguished Invited Lecturers



David D. Nolte
Purdue University



Yuxing Ben
Occidental Petroleum



Gregory C. Beroza
Stanford University



Hongkyu Yoon
Sandia National
Laboratories



Nantheera
Anantrasirichai
University of Bristol



Hari Viswanathan
Los Alamos National
Laboratory

Conveners: Mengsu Hu, Laura J. Pyrak-Nolte

Description

This Special Session of *Machine Learning for Coupled Processes in the Earth Sciences and Engineering* will have six Distinguished Invited Lectures on state-of-the-art machine learning applications. These cover a diverse range of topics from classifying acoustic sources in multiphysical laboratory tests (Nolte), to analyzing volcanic ground deformation with InSAR data (Anantrasirichai), to gaining a clearer understanding of induced seismicity (Beroza), and to achieving more precise control for optimized reservoir production (Ben, Viswanathan, Yoon).

We invite submissions that present the latest research on the development and applications of machine learning toolsets to advance a predictive understanding of fundamental Earth processes and to enable adaptive control of coupled processes in fractured geological media.

Link to website: <https://coufrac2022.org/sessions/ss1/>

Important Dates

- May 18, Deadline for Abstract submission
- June 1, Notification to authors on acceptance
- August 17, Deadlines for Extended Abstract submission
- October 1, Deadline for Early Registration
- November 1, Deadline for Regular Registration