

The joint 14th World Congress in Computational Mechanics and ECCOMAS Congress

19 – 24 July 2020, Paris, France

Mini-symposium on Computational Geomechanics

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This mini-symposium aims to provide a platform to discuss the recent developments in computational geomechanics. Contributions addressing computational method developments, numerical implementations and applications in geomechanics are welcome. This Mini-symposium seeks contributions related, but not limited, to: 1) computational methods and algorithms for multi-phase, multi-scale models, 2) coupled geomechanical/flow problems, 3) inverse analysis and parameter identifications with conventional data, 4) computational homogenisation, 5) conventional and data-driven constitutive modeling, 6) numerical modelling of faulting, damage, and fracturing processes in geomaterials, (7) micromechanics (particulate mechanics, molecular dynamics, etc.), (6) Meshless methods for large deformation poromechanics problems and extreme events modeling, (8) higher-order continuum theory for porous media, (9) probabilistic methods and uncertainty quantification methodologies for geomechanics are also welcomed.