

**MODELLING SOIL-WATER-STRUCTURE INTERACTION PROBLEMS WITH THE
PARTICLE FINITE ELEMENT METHOD**

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ABSTRACT

The purpose of this Invited Session is to show the advances achieved by the international researchers in the modelling geotechnical problems using the Particle Finite Element Method. Topics within the scope of interest include, but are not limited to, soil-water-structure interactions, porous-media, saturated and unsaturated mechanics soil, fluid soil interaction problems, applied to the simulation of landslides, penetration and consolidation problems, geotechnical tests or natural hazards. The application of other particle techniques to computational geomechanics is also welcome. We particularly welcome contributions highlighting experimental and modelling results for applied geotechnical problems via the PFEM.

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