



## ABSTRACT SUBMISSION

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## **ABSTRACT (preferably 300 words max)**

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## Technical Core Themes

### **Advanced laboratory and field testing of geomaterials in saturated and unsaturated states**

- Novel sensors for laboratory testing
- Advances in laboratory testing technique
- Digital image and PIV analysis
- Advances in ground investigation and field monitoring
- Geophysical methods
- Advanced sampling
- Particle-scale experimental observation
- Behaviour at geotechnical interfaces

### **From laboratory testing to constitutive and numerical modelling**

- Constitutive modelling of geomaterials
- Numerical modelling of boundary value problems
- Physical modelling
- Anisotropy and localisation
- Time dependent responses (ageing, creep)
- Cyclic and dynamic behaviour
- Soil stabilisation (lime, cement, geopolymers, biopolymers, alkaline activation)
- Soil improvement via biological and chemical processes
- Thermal behaviour
- Frozen soils including hydrates
- Mixtures (soils with inclusions)
- Soil-plant interaction

### **Application of advanced testing to practical geotechnical engineering**

- Integrated site characterisation
- Performance evaluation of geotechnical structures
- Field monitoring and observational method