**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