

## Recent advances in numerical modelling of cohesive fracture in concrete-like materials

This thematic session aims to communicate the latest advances in development and application of numerical methods for cohesive fracture in a variety of concrete materials and structures subjected to static and dynamic loading conditions.

The methods include (but not limited to):

- finite element methods
- boundary element methods
- meshless/mesh-free methods
- scaled boundary finite element methods
- discrete element methods
- extended finite element methods
- multiscale modelling methods
- methods considering random heterogeneous material behaviour

The materials/structures include (but not limited to):

- normal concrete
- reinforced concrete structures
- high performance concrete
- fibre reinforced concrete
- ultra high performance fibre reinforced concrete (UHPFRC)
- concrete-reinforcement interfacial behaviour
- FRP-concrete bonded joints and FRP-strengthened concrete structures
- Hydraulic fracture of concrete dams

The loading conditions include (but not limited to):

- Quasi-static
- Impact and blast
- Earthquake
- Fire (high temperature)
- Others

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