

February 19, 2024 – 11:00am-12:00pm

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Size dependent behaviour of intact rocks: recent findings and future direction

The design of structures on or within rock masses requires an estimate of the strength of the intact rock blocks within the mass. These blocks of rock can be many orders of magnitude greater in size than laboratory samples typically tested. The properties obtained from these samples must therefore be 'scaled' to equivalent field values. This presentation talks about current methods for scaling strength and other rock properties and, in lieu of noted limitations, presents a constitutive model for intact rock that incorporates size effect. It also includes recent findings and works published regarding size or scale effects in intact rocks under various loading conditions.

Program:

https://phd.uniroma1.it/web/seminar---size-dependent-behaviour-of-intact-rocks-recent-findings-and-future-direction_nS5767EN_EN.aspx

Registration form:

<https://forms.gle/u1Wnb5uEt9sQTp729>

Virtual room:

<https://uniroma1.zoom.us/j/81749633603>