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|  | **Ernesto Cascone**, professor of Geotechnics at Department of Engineering.Relevant skills* geotechnical engineering
* analysis of seismic stability condition of earth retaining structures and evaluation of earthquake-induced permanent displacements for performance-based design
* improvement of soft ground mechanical properties through preloading and vertical drains
* evaluation of static and seismic stability conditions of natural slopes accounting for cyclic behavior of soils
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| References (max. 5 relevant references)1. Rizzitano, S., **Cascone**,**E**., Biondi, G., 2014. Coupling of topographic and stratigraphic effects on seismic response of slopes through 2D linear and equivalent linear analyses. *Soil Dynamics and Earthquake Engineering* 67, 66–84.2. Biondi, G., **Cascone**,**E**., 2013. A case study on soil settlements induced by preloading and vertical drains.*Geotextiles and Geomembranes* 38, 51-67.3. Andini, V., Biondi, G., **Cascone**,**E**., Rampello, S., 2015. A GLE-based model for seismic displacement analysis of slopes including strength degradation and geometry rearrangement. *Soil Dynamics and Earthquake Engineering* 71, 128–142. |

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