

Special Issue

DEM Simulations and Modelling of Granular Materials

Message from the Guest Editor

For many years, experimental methods have been used to study the properties of granular materials. The development of computational techniques allows for a more detailed analysis of the influence of bedding structure, the generation method, and microstructural properties of grains on the mechanical response of material during filling and discharge of silo, handling, and conveying. One of the approaches to model granular mechanics problems is the discrete element method (DEM) in which the dynamics of each particle is computed with particle interactions modeled at various levels of complexity and rigor. The application of the discrete element method to model processes occurring in the granular materials provides new insights into the mechanics of these materials. This Special Issue on “DEM Simulations and Modelling of Granular Materials” aims to present results of DEM modeling of processes involving granular materials. Manuscripts presenting the results of the numerical simulations for the different types of materials in granular form, including plant and mineral materials, are welcomed.

Guest Editor

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