
Resilient Behavior Modelling of Granular Based Materials

Cyrille Chazallon^{*1,2}

¹institut national des sciences appliquées (INSA) – INSA Strasbourg – 24 Boulevard de la Victoire
67084 Strasbourg Cedex, France

²Laboratoire des sciences de l'ingénieur, de l'informatique et de l'imagerie (ICube) – Institut National des Sciences Appliquées (INSA) - Strasbourg, Université de Strasbourg, CNRS – 300 bd Sébastien Brant -
BP 10413 - F-67412 Illkirch Cedex, France

Abstract

The objectives of this mini symposium is to bring together scientists who develop models (analytical, DEM, FEM) allowing to reproduce the resilient behaviour of soils, unbound granular materials (crushed rocks, crushed concrete, asphalt aggregates, ...), coarsed aggregates assembly (ballast, ...), asphalt concrete mixes, after conditioning or not, subjected to triaxial loading or bi-axial loadings or uni-axial loading or bending. Multi-scale modelling of multi-phase materials are welcome.

Keywords: resilient behaviour, granular materials, asphalt concrete mixes, multiscale modelling, multiphase modelling

*Speaker