Special Issue

Discrete Element Method in Agricultural Engineering

Message from the Guest Editor

Discrete element modeling (DEM) is an emerging field in advancing agricultural engineering for agricultural production systems. This Special Issue aims to gather and present the applications of DEM in food production and postharvest processing, which may include soil–machine interactions, biomaterial processing, and postharvest handling. Different approaches within DEM can be presented, such as contributions showing simulations of real problems of soil preparation, seeding and tillage, manure application, harvesting, postharvest handling, and food processing as well as developments of new models, theoretical formulations, and numerical algorithms for DEM are welcome. The coupling of the DEM with other methods (e.g., FEM and CFD), as well as the use of the DEM in the framework of multiscale modeling, is within the scope of interest. This Special Issue represents an excellent opportunity for those who use and develop the discrete element method to present their achievements, including in the form of research articles, review articles, and communications related to the latest developments in the agricultural production system.

Guest Editor

Dr. Mohammad Sadek

BioResource and Agricultural Engineering, California Polytechnic State University, San Luis Obispo, CA, USA

Deadline for manuscript submissions

closed (15 June 2023)

AgriEngineering

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 4.7

mdpi.com/si/147839

AgriEngineering
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agriengineering@mdpi.com

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Dr. Mathew G. Pelletier
Cotton Production and Processing Research Unit, United States Department of Agriculture, Agricultural Research Services, Lubbock, TX 79403, USA

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