

# NOVEL EULER-LAGRANGE APPROACHES FOR COUPLING FLUID-DYNAMICS AND GRANULAR MEDIA

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## SUMMARY

The mini-symposium aims at bringing together engineers and researcher from the applied e.g. industry and scientific community and providing a lively exchange of ideas regarding state of the art and future needs for simulation technologies in Euler-Lagrange approaches for coupling fluid-dynamics and granular media. Therefore, topics of the mini-symposium in the broad sense will include:

- Targeted industrial applications and their requirements
- Multi-scale and multi-physics methods
- Coupling techniques for heat, mass and momentum transfer
- Parallelized calculations and high performance computing
- Coupling between independent modules e.g. CFD and DEM