

**13th International Conference on Computational Methods  
July 25th-28th 2022, at the Cloud**

**Plenary Lectures and Semi Plenary Lectures**

**Plenary Lecture (PL)**

Multiphase Large-eddy Simulations of Human Cough Jet Development and Expiratory Droplet Dispersion

*Shaofan Li, University of California-Berkeley, United States*

Physics Informed Machine-Learning based Computational mechanics

*YuanTong Gu, Queensland University of Technology, Australia*

**Semi Plenary Lecture (SPL) (sorting b last name)**

Semi-resolved CFD-DEM for particulate flows with thermal convection

*Moubin Liu, Peking University, China*

Numerical modeling of wave propagation in complex media: application to bone diagnostics

*Vu-Hieu Nguyen, Université Paris-Est Créteil, France*

Electro-thermal simulation with IGBTs and model reduction by Generalized Falk method

*Vu-Quoc Loc, University of Illinois at Urbana-Champaign, United States*

Wavelet methods for solving nonlinear mechanical problems

*Jizeng Wang, Lanzhou University, China*

Meshfree Stabilized Collocation Method: theory, algorithm and applications from solid mechanics to fluid-structure interaction problems

*Lihua Wang, Tongji University, China*

Phase-field modeling of fracture in multiphysical problems

*Jianying Wu, South China University of Technology, China*