

RECENT ADVANCES ON INTERFACES DYNAMICS MODELING AND SIMULATION

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Dynamics of the interface, like deformation and reaction, play an important role in biology like cell aggregation, and industry like water-proof material. Modeling and simulation of the dynamics of the interface are challenging since multiphase-flow and multiphysics fields are evolved. Recently, machine learning-based methods like Neural networks are introduced to solve the obtained nonlinear coupled system more efficiently. The purpose of this symposium is to bring together researchers working on modeling, theory, and numerics for interface problems, to share the latest advances in the field, and to provide a forum for joint collaborations.