Novel Numerical Methods for Fluid-Structure Interaction Problems

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ABSTRACT

This mini-symposium is aiming to give insight in the most recent advancements on numerical methods specifically developed for fluid-structure interaction problems. The focal point of the session is on the improvement of computational efficiency, software design, as well as the enhancement of numerical accuracy by means of newly developed methods. Although not limited to, potential applications for such methods could be: aerospace, maritime, civil, biomechanical, and production engineering. We especially encourage contributions in the field of spline-based methods, spatial and temporal coupling schemes, multiscale models and reduced order models, as well as software engineering for fluid-structure interaction problems.