

IGA FOR FLUID-STRUCTURE INTERACTION

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MINISYMPOSIUM

By virtue of the geometric flexibility and unparalleled accuracy per degree of freedom offered by isogeometric analysis (IGA), the method has developed into an enabling technology for complex fluid-structure interaction (FSI) problems. This minisymposium aims to provide a platform to discuss progress and recent advances in the application of IGA to FSI problems. The expected range of subjects includes (non-exclusively): immersed and unfitted methods reduced order models and methods auxiliary field interaction (e.g., FSI with contact, fracture, etc. or elasto-capillary FSI) artificial intelligence and machine learning novel iterative solution methods inverse methods software engineering Although the focus of this minisymposium is on FSI in a general sense, we also welcome contributions on related other coupled problems.