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INNOVATIVE METHODS FOR FLUID-STRUCTURE INTERACTION PROBLEMS

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ABSTRACT

The aim of this Thematic Session is to present and discuss the last advances in the numerical solution of Fluid-Structure Interaction (FSI) problems.

Presentations exposing advantages and disadvantages of the proposed approach with respect to those presented in the literature are especially welcome.
Also applications of the FSI strategy to real industrial problems are encouraged. Particular interest is devoted to big scale and coupled thermal problems.

No restriction is imposed to the application field (civil, mechanical, aerospace engineering, biotechnology, etc.), the coupling algorithm (monolithic or staggered) or the computing framework (Lagrangian, Eulerian or others).