ADVANCED APPROACHES FOR SHAPE OPTIMIZATION

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ABSTRACT

The Mini-Symposium "Advanced Methods for Shape Optimization" will gather together researchers from academia and industry working on shape optimization methods for engineering applications in solid and/or fluid mechanics from various engineering fields (e.g. aerospace, automotive, bio, civil and medical engineering). Among other topics, advances in adjoint methods, in parameter-based and parameter-free optimization, morphing will be presented as well as new applications and industrial realisations. Linear and non-linear problems ranging from advanced linear elastic static analysis to non-linear transient crashworthiness can be submitted as well as advanced CFD modelling. Methodological aspects as well as application issues will be discussed.

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