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RANS-based Aerodynamic Shape Optimization of the Blended Wing Body Aircraft Aerodynamic shape optimization starting from random initial geometry

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Aerodynamic Shape Optimization With The

When it comes to fluid- or aerodynamic shape optimization, we have been talking a lot about very specific applications in our recent blog posts, such as the design of race car rear wings or the shape optimization of turbine blades. Simulation engineers from the aerospace, automotive or turbomachinery sector are interested in finding optimal designs with superior performance but also with a high robustness in terms of operating points.

Aerodynamic Shape Optimization: A Practical Guide › CAESSES

Surrogate-based optimization is criticized in high-dimensional cases because it cannot scale well with the input dimension. In order to overcome this issue, we adopt a snapshot active subspace method to reduce the input dimension. A smoothing operation of samples is used to reduce the demand for snapshots in the construction of active subspaces.

Surrogate-based aerodynamic shape optimization with the ...

With the rapid development of computational fluid dynamics (CFD), the aerodynamic shape optimization (ASO) which includes aerodynamic shape parametric methods, mesh deformation methods, optimization algorithms and aerodynamic analysis has been widely concerned in the aircraft design.

Benchmark aerodynamic shape optimization with the POD ...

Namely, aerodynamic shape optimization with the adjoint method offers many advantages with respect to other techniques. This technique, in conjunction with others will be studied and applied to the optimization of a transonic airfoil and of a winglet for a long range airplane of Airbus.

Aerodynamic Shape Optimization with the Adjoint Method

Aerodynamic Shape Optimization with the Adjoint Method
Francisco Xavier Moreira Huhn francisco.m.huhn@ist.utl.pt
Instituto Superior T ecnico, Lisboa, Portugal November 2015
Abstract The biggest cost for airlines is due to fuel consumption. Therefore, it is of the interest of airlines that fuel consumption be minimized.

Aerodynamic Shape Optimization with the Adjoint Method

the aerodynamic shape optimization. The shape design variables are the displacement of all FFD control points in the vertical z direction. Fig. 1 Shape design variables are the z displacements of 720 FFD control points shown as spheres. §Data available online at <https://info.aiaa.org/tac/ASG/APATC/AeroDesignOpt-DG/default.aspx> [retrieved May 2014].

Aerodynamic Shape Optimization Investigations of the ...

Using an integrated workflow with parametric design, Computational Fluid Dynamic and Fast Fluid Dynamic simulations, structural analysis and optimization...

Aerodynamic Shape Optimization | Parametric House

This study provides a simple and efficient method for aerodynamic shape optimization based on a moving first-order-Taylor ROM. The proposed method divides the optimization process into several continual rounds. During an optimization round, the aerodynamic shape is optimized according to the data provided by the ROM.

Aerodynamic shape optimization by continually moving ROM ...

The e ectiveness of optimization as a tool for aerodynamic design also depends crucially on the proper choice of cost functions and constraints. One popular approach is to de ne a target pressure distribution, and then solve the inverse problem of nding the shape that will produce that pressure distribution. Since

Aerodynamic Shape Optimization Using the Adjoint Method

aerodynamic shape optimization of a transonic NLF wing can be much more complicated than that of a traditional turbulent wing, due to the difficulty in tradeoff between extension of laminar flow and suppression of shock wave. From this perspective, an efficient global optimization would be of great significance to get the most efficient

Aerodynamic Shape Optimization of Natural-Laminar-Flow ...

Abstract. Aerodynamic shape optimization of a transonic wing

using mathematically-extracted modal design variables is presented. A novel approach is used for deriving design variables using a singular value decomposition of a set of training aerofoils to obtain an efficient, reduced set of orthogonal ‘modes’ that represent typical aerodynamic design parameters.

Wing aerodynamic optimization using efficient ...

The aerodynamic performance of a deployable and low-cost unmanned aerial vehicle (UAV) is investigated and improved in present work. The parameters of configuration, such as airfoil and winglet, are determined via an optimising process based on a discrete adjoint method.

The aerodynamic optimisation of a low-Reynolds paper plane ...

dynamic Shape Optimization, Computational Fluid Dynamics (CFD). Abstract. This paper deals with developing an efficient Robust Design Optimization (RDO) framework. The goal is to obtain an aerodynamic shape that is less sensitive to small random geometry perturbations and to uncertain operational conditions. The initial shape is the

AN EFFICIENT AERODYNAMIC SHAPE OPTIMIZATION FRAMEWORK FOR ...

Surrogate-based optimization has been used in aerodynamic shape optimization, but it has been limited due to the curse of dimensionality. Although a large number of variables are required for the shape parameterization, many of the shapes that the parameterization can produce are abnormal and do not add meaningful information to a surrogate model. To improve the efficiency of surrogate-based optimization, recent machine learning techniques are applied in this study to reduce the abnormality ...

Efficient Aerodynamic Shape Optimization with Deep ...

Aerodynamic shape optimization is usually a loop of an optimization model, an optimizer and an evaluation workflow. A new optimizer is proposed and tested for a typical aerodynamic shape optimization of missile control surfaces with computational

(PDF) Aerodynamic shape optimization using a novel ...

Now, CFD based aerodynamic shape optimization is a key step in the design process for every major automotive company. And if the adoption of electric vehicles continues, aerodynamic shape optimization will only become more important. The simplest, cheapest way to increase electric vehicle range is through aerodynamic drag reduction.

BlenderFOAM: Open-source Fluid Based Shape Optimization

The aerodynamic shape optimization algorithm used comprises three main components: 1) a multiblock Newton-Krylov solver for the Euler and Reynolds-Averaged Navier-Stokes (RANS) equations, 2) a B-spline geometry parameterization which is coupled with a linear elasticity mesh movement strategy, and 3) the gradient-based optimizer SNOPT with gradients calculated using the discrete adjoint method.

Aerodynamic Shape Optimization of a Blended-Wing-Body ...

Aerodynamic shape optimization should be performed for parts of the missile (Nose, Wing, Canard, Fin, and Body) in order to achieve the mission better.

A Review of Aerodynamic Shape Optimization for a Missile

them as constraints in aerodynamic shape optimization problems. To address this need, we develop a method for computing static and dynamic stability derivatives, and their gradients, that

enables gradient-based stability-constrained aerodynamic shape optimization. Although the computation of stability derivatives has been