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USING HIGH RESOLUTION DESIGN SPACES FOR AERODYNAMIC SHAPE OPTIMIZATION UNDER UNCERTAINTY



Using High Resolution Design Spaces for Aerodynamic Shape Optimization Under Uncertainty

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BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 36 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. This paper explains why high resolution design spaces encourage traditional airfoil optimization algorithms to generate noisy shape modifications, which lead to inaccurate linear predictions of aerodynamic coefficients and potential failure of descent methods. By using auxiliary drag constraints for a simultaneous drag reduction at all design points and the least shape distortion to achieve the targeted drag reduction, an improved algorithm..

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