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A SUBSONIC AIRCRAFT DESIGN OPTIMIZATION WITH NEURAL NETWORK AND REGRESSION APPROXIMATORS



A Subsonic Aircraft Design
Optimization With Neural Network
and Regression Approximators

NASA Technical Reports Server
(NTRS), et al., Surya N. Patnaik

BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 28 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. The Flight-Optimization-System (FLOPS) code encountered difficulty in analyzing a subsonic aircraft. The limitation made the design optimization problematic. The deficiencies have been alleviated through use of neural network and regression approximations. The insight gained from using the approximators is discussed in this paper. The FLOPS code is reviewed. Analysis models are developed and validated for each approximator. The regression method appears...

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