

Optimization based clearance of flight control laws: a civil aircraft application

Varga, Andreas, editor

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Abstrak

This book summarizes the main achievements of the EC funded 6th Framework Program project COFCLUO. This project successfully contributed to the achievement of a top-level objective to meet society's needs for a more efficient, safer and environmentally friendly air transport by providing new techniques and tools for the clearance of flight control laws. This is an important part of the certification and qualification process of an aircraft.

In the book, the new techniques are explained and benchmarked against traditional techniques currently used by the industry. The new techniques build on mathematical criteria derived from the certification and qualification requirements together with suitable models of the aircraft. The development of these criteria and models are also presented in the book.