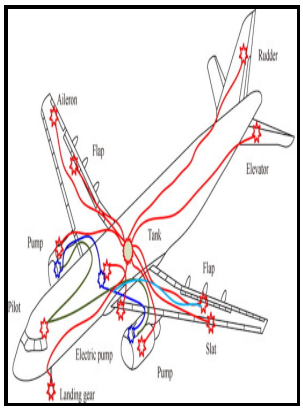
Robustness characteristics of active flight control algorithms.

University of Salford - Active Adaptive Control Laboratory



Description: -
-Robustness characteristics of active flight control algorithms.
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Notes: MSc thesis, Aeronautical and Mechanical Engineering.
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A flight control system for aerial robots: algorithms and experiments

With both of these features, the stability of the resulting closed-loop adaptive system is guaranteed.

Model

This will allow for the safe testing of adaptive algorithms on real experimental testbeds.

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We consider in this work the case of tall systems, but the case of wide systems holds by duality. Efforts are ongoing in our laboratory to develop internal monitors of the adaptive systems so as to provide a leading indicator for unexpected behavior.

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A simulation environment is applied to evaluate the performance of these control algorithms under external wind conditions using a Monte Carlo analysis.

Model

In fact, the flexible effect on the wing is so significant that the wing is visibly deforming when load varies.

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