

## **Fault Tolerant L1 Adaptive Control Based on Degraded Models**

This paper proposes a method for fault tolerant control. The design is based on an L1 adaptive controller with a nominal reference model and a set of degraded reference models. In a degraded model the criteria of stability margins and performance bounds are reduced. The simulation results for the pitch angle control of a small fixed wing UAV show good compromise between performance and robustness against faults and large uncertainties.