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Part I contains the introduction and motivation of this research project and a state-of-the-art overview in Fault Tolerant Flight Control (FTC). Part II includes the description of the benchmark challenge, consisting of details of the benchmark simulation model and the assessment criteria used to evaluate the performance of the Fault Tolerant Controllers.

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R The GARTEUR RECOVER benchmark has been developed as a Matlab / R Simulink platform for the design and integrated (real-time) evaluation of new fault tolerant control techniques. The benchmark consists of a set of high-fidelity simulation and flight control design tools, including aircraft fault scenarios validated against accident flight data.

Fault tolerant flight control (FTFC), or intelligent self-adaptive control, enables improved survivability and recovery from adverse flight conditions induced by faults, damage and associated upsets.

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The European Flight Mechanics Action Group FM-AG(16) on Fault Tolerant Control, established in 2004 and concluded in 2008, represented a collaboration involving thirteen European partners from industry, universities and research establishments under the auspices of the Group for Aeronautical Research and Technology 1 in Europe (GARTEUR) program .

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