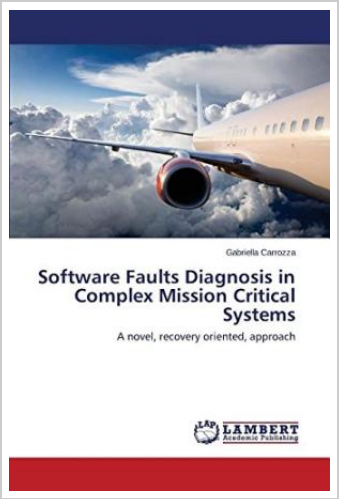

Software Faults Diagnosis in Complex Mission Critical Systems

By Carrozza, Gabriella

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | A novel, recovery oriented, approach | This work proposes an approach to software faults diagnosis in complex fault tolerant systems, encompassing the phases of error detection, fault location, and system recovery. Errors are detected in the first phase, exploiting the operating system support. Faults are identified during the location phase, through a machine learning based approach. Then, the best recovery action is triggered once the fault is located. Feedback actions are also used during the location phase to improve detection quality over time. A real world application from the Air Traffic Control field has been used as case study for evaluating the proposed approach. Experimental results, achieved by means of fault injection, show that the diagnosis engine is able to diagnose faults with high accuracy and at a low overhead. | Format: Paperback | Language/Sprache: english | 240 gr | 220x150x9 mm | 168 pp.

Reviews

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