Finding Faults of Executable Models: Manually and Automatically

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Résumé

When a model represents the dynamic aspects of a system (a.k.a behavioral model), testing it becomes a necessitate to ensure it represents the correct behavior. If test cases fail, it alerts the existence of faults in the model, hereafter proper means are needed to localize the faults. In this presentation, I will talk about both manual and automatic fault localization techniques in the context of executable models and their test cases. In particular, the challenges of adopting the existing debugging techniques from the software testing area to the model testing area will be discussed. Finally, I will present a generic solution to tackle the challenges along with demonstrating the developed solution in an Eclipse environment.

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