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Session 2

Tooling Aid for Verification

Integrating an Event-Based Simulation Tool into the Art2kitekt Framework

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Micro-Summary

This presentation shows a new event-based simulation tool that is integrated into the art2kitekt framework, a web-based toolchain focused on the design and analysis of critical systems.

The main goal of this extension is to provide the capability of performing model-based simulation verification of autonomous reconfigurable systems to this framework.

Automated Display Testing in TestPASS

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Micro-Summary

TestPASS helps to simplify display testing. A concept of a parametrized model is a key component of the methodology. A model contains an abstract description of an image expressed in XML-based structured form. Models admit input parameters and an embedded script to improve flexibility and expressiveness.

Verification is split into two phases. First, the model is checked whether it correctly describes an observed image. Next, requirements and constraints are checked on an abstract model rather than on captured image.