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Run-Time Monitoring and Checking

Thursday, September 29, 3pm

Abstract:

Establishing correctness of an application with respect to its requirements is a hard problem. Existing verification methods generally do not produce the desired level of assurance at an acceptable cost.

What if we try to solve a simpler problem: is the current execution of an application correct?

We will discuss the MaC project that aims at developing a methodology and tool support for formally-specified run-time monitoring and checking. We will consider how to precisely specify requirements, how to generate checkers that will check the satisfaction of these requirements, how to extract the necessary information from the application, and what to do when an error is discovered.

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