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Title: « TFSMs with output delays : state identification and applications in distributed networking systems»

Short Abstract:

This presentation is devoted to the state identification for Timed Finite State Machines (TFSMs) with output delays, and the relevant applications in the distributed networking systems. In the first part, the notions of homing, synchronizing and distinguishing sequences for TFSMs are defined, and the approaches for their derivation are proposed. In the second part, we investigate how the state identification sequences can be used to derive exhaustive test suites targeting time-related faults and to provide timed recommendations for safe execution of tenant requests in distributed networking systems.