Title: Constructing Abstract Behavioural Models with Petri Nets

Abstract

Petri Nets is a compact mathematical modelling formalism involving just
a small set of primitives and associated semantics. However it enables
modelling of dynamic behaviour from small scale machines to large scale
software architectures. In this interactive session, we shall first
introduce the Petri Nets machinery and then discover its
power of modelling by means of active problem solving via
several pen-and-paper exercises without using the computer.
The session will involve reasoning with trace-sets and
reachability graphs constructed from Petri Nets, and vice versa.
A couple of research ideas in the field of large scale software
modelling with Petri Nets will be introduced at the end of the session.

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