Vortragsankündigung

Seminar Regelungssysteme LV 0430L654
Montag, 14. Mai 2012, 16:00 Uhr
Vortragsort: EN 223

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“Abstraction based synthesis of discrete event systems”

This talk revisits a framework for abstraction based controller synthesis, that has been originally developed in joint work with Jörg Raisch. Motivated by a class of hybrid systems, we proposed to design a supervisor for a discrete event plant abstraction. The main result was the elaboration of conditions under which the abstraction based controller is guaranteed to achieve the control objectives for the actual plant. One of the conditions requires the plant to be represented as a topologically closed \(\omega\)-language or, equivalently, as a complete behaviour. The talk discusses this somewhat technical condition in detail and suggests a considerably weaker alternative.