



Technische Universität Berlin
Fakultät IV Elektrotechnik und Informatik
Fachgebiet Regelungssysteme
Leitung: Prof. Dr.-Ing. Jörg Raisch
Skr. EN 11, Tel. 314-22999



Vortragsankündigung

Seminar Regelungssysteme LV 0430L654

Montag, 14. Mai 2012, 16:00 Uhr

Vortragsort: EN 223

Prof. Dr.-Ing. Thomas Moor
Universität Erlangen-Nürnberg, Germany

“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 ω -language* or, equivalently, as a *complete behaviour*. The talk discusses this somewhat technical condition in detail and suggests a considerably weaker alternative.