Vortragsankündigung

Seminar Regelungssysteme LV 0430L 654

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Supervisory control of hybrid systems under partial observation based on l-complete approximations

In most studies on supervisory control of hybrid systems, the signals of input and output to describe the behavior and specification of a plant are assumed to be measurable, that is, observable. However, some signals used to describe the behavior and specification may be unmeasurable due to various reasons, e.g., cost. In this talk, I present a new supervisory control technique for hybrid systems with unmeasurable signals. This work is based on the l-complete approximation technique developed by Moor & Raisch. Specifically, I show that a supervisory controller designed with a controllable and observable specification for a l-complete approximation model also meets the specification for an underlying hybrid plant.