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Vortragsankündigung

Seminar Regelungssysteme LV 0430L654

Dienstag, 23. Februar 2016, 16:15 Uhr
Vortragsort: EN 223

Prof. Alessandro D’Innocenzo
University of L’Aquila, Italy

“Modeling and Co-design of Control Tasks over Wireless Networking
Protocols: State of the Art and Challenges ”

Wireless networked control systems are the integration of physical processes with wireless networked computing units. The co-design of control policies and network configuration must take into account the joint dynamics of operating systems, communication protocols/media and physical devices/processes. In this talk we first give a brief overview of the state-of-the-art on wireless networked control systems. Then we present some recent advances in the co-design of control tasks over wireless networking protocols subject to long term (e.g. failures, malicious attacks, etc) and short term (e.g. dynamic routing, packet drops) networking non-idealities.