

Vortragsankündigung

Am

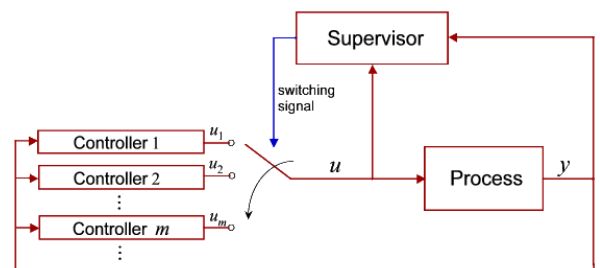
Montag, 01. July 2019
in Raum P1.3.02 um 14.00 Uhr

hält Frau Dr. Atreyee Kundu, Indian Institute of Science, einen Vortrag über

Algorithmic construction of stabilizing switching signals for switched systems

Abstract:

Switched systems find wide applications in power systems and power electronics, automotive control, aircraft and air traffic control, network and congestion control, etc. It is well-known that a switched system does not necessarily inherit qualitative properties of its constituent subsystems. Consequently, characterization of stabilizing switching signals constitutes a key topic in the literature. In this talk I will describe a class of algorithms that designs stabilizing switching signals. Our results employ Lyapunov stability theory and graph theoretic arguments.



Bio:

Atreyee Kundu received her PhD in Systems and Control Engineering from the Indian Institute of Technology Bombay, India in 2015. She was then a Postdoctoral researcher with the Eindhoven University of Technology, the Netherlands and the University of Lorraine, France. Since June 2018, she is an INSPIRE Faculty Fellow with the Department of Electrical Engineering, Indian Institute of Science Bangalore, India. Her current research interests include switched and hybrid systems, networked control systems, learning aided control techniques, and applications of graph theory to systems and control.