FRIEDRICH-ALEXANDER
UNIVERSITÄT
ERLANGEN-NÜRNBERG

TECHNISCHE FAKULTÄT

Elektrotechnik-Elektronik-Informationstechnik

EEI KOLLOQUIUM

Cognitive modeling for human-robot interactions in traffic and beyond

Professor Dr. Arkady Zgonnikov
Department of Cognitive Robotics, Delft University of Technology

Mittwoch, 27.04.2022, 10:00 Uhr

Hybrid:

https://fau.zoom.us/j/64823442617 oder Raum 02.037 (Paul-Gordan-Straße 3-5, 91052 Erlangen).

It is often claimed that robots designed to interact with humans need to understand human behavior. But how can we hope that robots will learn to understand humans if even scientists who have studied human behavior for decades still argue about basic cognitive mechanisms underlying behavior? In this talk, I will provide an overview of my lab's research that aims to bridge the fields of computational cognitive science and human-robot interaction. I will highlight the merits and challenges of modeling human cognitive processes in human-robot interaction tasks and illustrate them with the examples of human drivers interacting with autonomous vehicles in traffic.