

MAGDEBURG LECTURES ON OPTIMIZATION AND CONTROL

Katja Mombaur



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Katja Mombaur
Ruprecht-Karls-Universität Heidelberg

**Improving human-centered robots
by model-based optimization**

Di, 26.11.2019 17:00-18:30 G02-210

Further information:
www.mabot.org.de

Jointly organized by: Faculty of Electrical Engineering and Information Technology
Faculty of Mathematics
Max Planck Institute Magdeburg
Center for Dynamic Systems: Biosystems Engineering

CDS EIT MATH

04.11.2019 - Improving human-centered robots by model-based optimization

› Katja Mombaur (<https://typo.iwr.uni-heidelberg.de/groups/orb/people/prof-katja-mombaur/>)

Katja Mombaur is a full professor at the Institute of Computer Engineering of Heidelberg University and head of the Optimization, Robotics & Biomechanics Chair, as well as coordinator of the Heidelberg Center for Motion Research. She holds a diploma degree in Aerospace Engineering from the University of Stuttgart and a Ph.D. degree in Mathematics from Heidelberg University and has worked as a researcher at Seoul National University and in LAAS-CNRS in Toulouse. In 2020, she will join the University of Waterloo as Canada Excellence Chair for Human-Centered Robotics & Machine Intelligence. Her research focuses on understanding human movement by a combined approach of model-based optimization and experiments and using this knowledge to improve motions of humanoid robots and the interactions of humans with exoskeletons, prostheses and external physical devices.

Time & Place

The presentation on November 26, 2019 will be given in building 02, room 210 at the › Otto-von-Guericke-University of Magdeburg (<https://www.uni-magdeburg.de/>) and starts at 5.00 p.m..