

Einladung zum Vortrag

Human-safe and Efficient Robot Control

von

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■ **ABSTRACT**

Human safety is a critical issue to coexist with robots. Skillful robots are expected to become the protagonists of an era of robots in every home, as part of our daily life environment. My research has centered on the idea of considering the robot's efficiency while also decreasing human safety risks in order to merge the humans' and robots' workspaces. This is because we need powerful and fast robots to perform tasks among us with a flawless Human-Robot Interaction (HRI). I will introduce my proposed methodologies that enable robots to be both efficient and safe when moving in human proximity. Furthermore, I will present real-robot and simulation experiments of simplified scenarios and dangerous situations that can be successfully treated with the proposed methods.

■ **BIOGRAPHICAL INFORMATION**

M.Eng. Gustavo GARCIA is currently a Ph.D. candidate in the Nara Institute of Science in Technology (NAIST), Japan, working in the area of human safety. He graduated with a BS in Communications and Electronics Engineering from the Instituto Politecnico Nacional, Mexico, in 2008, where after he worked as an independent IT consultant. In 2010, he was awarded the MEXT scholarship to pursue graduate studies. In 2013, he was awarded M.Eng. in Robotics from NAIST. In 2011 and 2014, he was awarded four prizes in the robotics contests of the OpenRTM middleware. His research interests include human-safe and efficient robot control, human-robot interaction, and motion planning.

■ **WEITERE INFORMATIONEN**

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