From Robots to Cobots
Iterative Learning of a Skill Library of Interaction Primitives using Wearable Sensors and a 7DoF Robot Arm

Dorothea Koert, Marco Ewerton

- Intelligent Adaptive Robot Coworkers
- Build upon Interaction Primitives [Maeda et al., HUMANOIDS 2014]
- Online learning of a skill library for human-robot interaction
From Robots to Cobots - Overview

- Use wearable IMUs and kinesthetic teaching to collect demonstrations
- Extend previous work with Bayesian Nonparametrics for incremental learning of Interaction Primitives

- **You will learn**: Probabilistic Interaction Primitives, Online Learning of Gaussian Mixture Models, investigate Life long learning methods, work with real robots and ROS, ...