From Robots to Cobots





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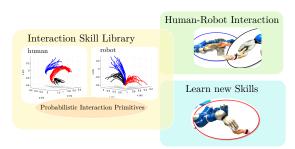
- Intelligent Adaptive Robot Coworkers
- Build uppon Interaction Primitives [Maeda et al., HUMANOIDS 2014]
- Online learning of a skill library for human-robot interaction



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, . . .