

Autonomous robotics challenges and our team results in it

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Annotation:

Autonomous robot represent a wide class of machines capable of (partial) autonomous decision making. The lecture will explain briefly what autonomous robot is, used control architectures, possibilities how to represent robot world and perform decisions/planning in it autonomously. The approach will be demonstrated in three use-cases, results of our research projects: (a) dual-arm robotic manipulation with soft objects as pieces of garment; (b) mixed human-robot team in rescue robotics; (c) autonomously driven car - perception in general and short term prediction of pedestrian behavior close to pedestrian crossing.

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