The Nature of the Household and Outdoor Robot Assistants - the Future Musculo Skeletal Design of Robot Kotaro

Abstract
Robotics is research on intelligent connection from perception to action. Once a robot gets a goal, it has to have a plan for the task and carry the intelligent connection to achieve the goal in the real world. In order to develop such a perception-based intelligent robot and perform high level tasks like household and works around outdoor environment, it is required to have rich capabilities in perception of the outside environment and enough adaptability in action to the dynamic environment where a human lives everyday. In this presentation, we show a research stream on intelligent connection from perception to action done in our lab at The University of Tokyo, and recent research activities on everyday life assistive robots and trials for the future robotics, especially the body design such as musculoskeletal and sensor fresh for physical interaction with limberness and safety.

Curriculum Vitae

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