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Studies on Interactive Robots

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Abstract of Keynote

Robotics used to be divided into two main fields: Navigation and Manipulation. These fields study and develop only those robots that are optimized for the use in factories. Together with researchers in other countries, I have established a new field of inquiry: Interaction. I started studying human-robot interaction and developed a humanoid interactive robot designed for ordinary use. Furthermore, I was the first in the world to design and develop realistic humanlike robots called androids.

In this talk, I will introduce interactive and communicative personal robots and androids and discuss these technologies and scientific issues. More concretely, I will discuss intention/desire, experiences, emotion and consciousness with respect to robots and androids.

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