



Human-Robot Interaction in Social Robotics

Takayuki Kanda, Hiroshi Ishiguro

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Human–Robot Interaction in Social Robotics explores important issues in designing a robot system that works with people in everyday environments. Edited by leading figures in the field of social robotics, it draws on contributions by researchers working on the Robovie project at the ATR Intelligent Robotics and Communication Laboratories, a world leader in humanoid interactive robotics. The book brings together, in one volume, technical and empirical research that was previously scattered throughout the literature.

Taking a networked robot approach, the book examines how robots work in cooperation with ubiquitous sensors and people over telecommunication networks. It considers the use of social robots in daily life, grounding the work in field studies conducted at a school, train station, shopping mall, and science museum. Critical in the development of network robots, these usability studies allow researchers to discover real issues that need to be solved and to understand what kinds of services are possible.

The book tackles key areas where development is needed, namely, in sensor networks for tracking humans and robots, humanoids that can work in everyday environments, and functions for interacting with people. It introduces a sensor network developed by the authors and discusses innovations in the Robovie humanoid, including several interactive behaviors and design policies.

Exploring how humans interact with robots in daily life settings, this book offers valuable insight into how robots may be used in the future. The combination of engineering, empirical, and field studies provides readers with rich information to guide in developing practical interactive robots.

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