

Human–Robot Interaction

The role of robots in society keeps expanding and diversifying, bringing with it a host of issues surrounding the relationship between robots and humans. This introduction to human–robot interaction (HRI) by leading researchers in this developing field is the first to provide a broad overview of the multidisciplinary topics central to modern HRI research. Written for students and researchers from robotics, artificial intelligence, psychology, sociology, and design, it presents the basics of how robots work, how to design them, and how to evaluate their performance. Self-contained chapters discuss a wide range of topics, including speech and language, nonverbal communication, and processing emotions, plus an array of applications and the ethical issues surrounding them.

This revised and expanded second edition includes a new chapter on how people perceive robots; coverage of recent developments in robotic hardware, software, and artificial intelligence; and exercises for readers to test their knowledge.

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An Introduction

Second Edition

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