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References; Validating characterizations of sociality in HRI; Introduction
Interaction patternsFive approaches to validating characterizations of
sociality; The psychometric approach; The literary approach; The
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approach; Conclusion; Acknowledgements; References; Attitudes
toward robots and factors influencing them; Introduction; Research on
attitudes toward robots; Negative attitudes toward robots scale (NARS);
Related works with the NARS; Factors influencing negative attitudes
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Summary and future directionAcknowledgment; References; The USUS
evaluation framework for user-centered HRI; Introduction; State of the
art; The theoretical factor-indicator model; Usability as evaluation
factor; Social acceptance as evaluation factor; User experience as
evaluation factor; Societal impact as evaluation factor; The
methodological framework; Expert evaluation; User studies;
Standardized questionnaires; Physiological measurements; Focus
groups; In-depth interviews; Validation of the USUS framework in terms
of feasibility; Applying the USUS evaluation framework
Discussion and outlookAcknowledgements; References; Toward
making robots invisible-in-use; Toward making robots invisible-in-
use; The ubiquitous computing perspective; Invisible-in-use; Robots as
invisible-in-use; Tools study; Respondents and interviewees;
Hypotheses; Tools study methods; Data analysis; Results and
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communication
A dynamic field approach to goal inference,error detection and
anticipatory actionselection in human-robot collaboration

Sommario/riassunto

Human-Robot Interaction (HRI) considers how people can interact with robots in order to enable robots to best interact with people. HRI presents many challenges with solutions requiring a unique combination of skills from many fields, including computer science, artificial intelligence, social sciences, ethology and engineering. We have specifically aimed this work to appeal to such a multi-disciplinary audience. This volume presents new and exciting material from HRI researchers who discuss research at the frontiers of HRI. The chapters address the human aspects of interaction, such as how a
