

Contents

Introduction

- Cultural Robotics: Robots as Participants and Creators of Culture 3
*Belinda J. Dunstan, David Silvera-Tawil, Jeffrey T.K.V. Koh,
and Mari Velonaki*

Culture Affecting the Design, Application and Evaluation of Robots

- Cultural Difference in Back-Imitation's Effect on the Perception of Robot's
Imitative Performance 17
Yasser Mohammad and Toyoaki Nishida
- Designing the Appearance of a Telepresence Robot, M4K: A Case Study . . . 33
*Hyelip Lee, Yeon-Ho Kim, Kwang-ku Lee, Dae-Keun Yoon,
and Bum-Jae You*
- The Positive Effect of Negative Feedback in HRI Using a Facial Expression
Robot 44
Mauricio Reyes, Ivan Meza, and Luis A. Pineda
- Introducing a Methodological Approach to Evaluate HRI from a Genuine
Sociological Point of View. 55
Diego Compagna, Manuela Marquardt, and Ivo Boblan

Robots as Participants in Culture

- Head Orientation Behavior of Users and Durations in Playful Open-Ended
Interactions with an Android Robot. 67
Evgenios Vlachos, Elizabeth Jochum, and Henrik Schärfe
- Towards the Design of Robots Inspired in Ancient Cultures as Educational
Tools. 78
Christian Penalzoza, Cesar Lucho, and Francisco Cuellar
- Towards Socializing Non-anthropomorphic Robots by Harnessing Dancers'
Kinesthetic Awareness. 85
Petra Gemeinboeck and Rob Saunders
- Robots and the Moving Camera in Cinema, Television and Digital Media . . . 98
Chris Chesher

Robot-Supported Food Experiences: Exploring Aesthetic Plating
with Design Prototypes 107
*Christian Østergaard Laursen, Søren Pedersen, Timothy Merritt,
and Ole Caprani*

Robots as Producers of Culture: Material and Non-material

‘Face Robots’ Onscreen: *Comfortable and Alive* 133
Elena Knox

Robot Opera: A Gesamtkunstwerk for the 21st Century 143
Wade Marynowsky, Julian Knowles, and Andrew Frost

The Performance of Creative Machines 159
Petra Gemeinboeck and Rob Saunders

The Advent of Robotic Culture

Compressorhead: The Robot Band and Its Transmedia Storyworld 175
Alex Davies and Alexandra Crosby

Author Index 191



<http://www.springer.com/978-3-319-42944-1>

Cultural Robotics

First International Workshop, CR 2015, Held as Part of
IEEE RO-MAN 2015, Kobe, Japan, August 31, 2015.

Revised Selected Papers

Koh, J.T.K.V.; Dunstan, B.J.; Silvera-Tawil, D.; Velonaki, M.
(Eds.)

2016, VIII, 191 p. 49 illus., Softcover

ISBN: 978-3-319-42944-1