

Second International Symposium on New Frontiers in Human-Robot Interaction

Table of Contents:

Policy Adaptation through Tactile Correction

Brenna D. Argall, Eric L. Sauser and Aude G. Billard (École Polytechnique
Fédérale de Lausanne, Switzerland)

Pages 1-8

An Autonomous Proxemic System for a Mobile Companion Robot

Mohammadreza Asghari Oskoei, Michael L. Walters and Kerstin Dautenhahn
(University of Hertfordshire, UK)

Pages 9-15

Towards a Skin-Like Embedded Tactile Sensor for Robotic Hands

Andrea Biggio, Perla Maiolino and Giorgio Cannata (University of Genova, Italy)

Pages 16-21

Towards HRI on the Move with Mixed Initiative

Cristian Bogdan, Dominik Ertl, Michael Göller, Anders Green and Kerstin
Severinson Eklundh (Royal Institute of Technology, Sweden; Vienna University
of Technology, Austria; Research Center for Information Technology (FZI),
Germany)

Pages 22-26

Touch-Triggered Protective Reflexes for Safer Robots

Torbjørn S. Dahl and Andrew Palmer (University of Wales, UK)

Pages 27-33

Reducing Speech Collisions by Using an Artificial Subtle Expression in a Decelerated Spoken Dialogue – Should communication robots respond quickly?

Kotaro Funakoshi, Kazuki Kobayashi, Mikio Nakano, Takanori Komatsu and Seiji
Yamada (Honda Research Institute Japan Co. Ltd, Japan; Shinshu University,
Japan; National Institute of Informatics / The Graduate University for Advanced
Studies, Japan)

Pages 34-41

Evaluation of Robot Body Movements Supporting Communication

Helge Hüttenrauch, Cristian Bogdan, Anders Green, Kerstin Severinson Eklundh,
Dominik Ertl, Jürgen Falb, Hermann Kaindl, Michael Göller (Royal Institute of
Technology, Sweden; Vienna University of Technology, Austria; Research Center
for Information Technology (FZI), Germany)

Pages 42-49

Validating Characterizations of Sociality in HRI: The Case of Interaction Patterns
Peter H. Kahn, Jr., Brian T. Gill, Aimee L. Reichert, Takayuki Kanda, Hiroshi Ishiguro and Jolina H. Ruckert (University of Washington, USA; Seattle Pacific University, USA; ATR, Japan; Osaka University, Japan)
Pages 50-57

Smart Action Selection Architecture Taking into account both Goal-orientedness and Proactivity
Woo Young Kwon and Il Hong Suh (Hanyang University, Korea)
Pages 58-63

Social, functional, and problem-related tasks in HRI - a comparative analysis of body orientation and gaze
Manja Lohse (Bielefeld University, Germany)
Pages 64-71

Towards Intrinsically Learned Skin Models in Robots
Simon McGregor and Daniel Polani (University of Hertfordshire, UK)
Pages 72-75

Expressive Gestures Displayed by a Humanoid Robot during a Storytelling Application
Catherine Pelachaud, Rodolphe Gelin, Jean-Claude Martin and Quoc Anh Le (CNRS, LTCI Telecom ParisTech, CNRS LIMSI, France; Aldebaran, France)
Pages 76-79

How infants perceive the toy robot Pleo. An exploratory case study on infant-robot-interaction
Karola Pitsch and Benjamin Koch (Bielefeld University, Germany)
Pages 80-87

Ibn Sina Steps Out: Exploring Arabic Attitudes Toward Humanoid Robots
Laurel D. Riek, Nikolaos Mavridis, Shammah Antali, Noura Darmaki, Zeeshan Ahmed, Maitha Al-Neyadi and Amina Alketheri (University of Cambridge, UK; United Arab Emirates University, UAE; University of Nancy, France)
Pages 88-94

Robot learning of lexical semantics from sensorimotor interaction and the unrestricted speech of human tutors
Joe Saunders, Chrystopher L. Nehaniv and Caroline Lyon (University of Hertfordshire, UK)
Pages 95-102

Ethical issues in robot care for the elderly: Dystopia or optimism?
Amanda Sharkey and Noel Sharkey (University of Sheffield, UK)
Pages 103-107

Mirror my emotions! Combining facial expression analysis and synthesis on a robot
Stefan Sosnowski, Christoph Mayer, Kolja Kühnlenz and Bernd Radig
(Technische Universität München, Germany)
Pages 108-112

On Making Robots Invisible-in-Use
Leila Takayama (Willow Garage, USA)
Pages 113-119

Exploratory Analysis of Operator:Robot ratio in Search and Rescue Missions
Alberto Valero, Chiara Saracini, Paloma de la Puente, Diego Rodriguez-Losada,
Fernando Matia (Universidad Politécnica de Madrid, Spain; Università di Roma,
Italy)
Pages 120-127

Development of HRI Models by means of a Cognitive Walkthrough Approach
Astrid Weiss, Florian Foerster, Daniela Wurhofer and Manfred Tscheligi
(University of Salzburg, Austria)
Pages 128-135

A Robot as Persuasive Social Actor A Field Trial on Child-Robot Interaction
Astrid Weiss, Thomas Scherndl, Roland Buchner and Manfred Tscheligi
(University of Salzburg, Austria)
Pages 136-142