CONFERENCE PROGRAM

Third International Conference on Human-Robot Interaction (HRI 2008)

12-15 March 2008
Amsterdam, The Netherlands

www.hri2008.org
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<th>Time</th>
<th>Thursday (March 13, 2008)</th>
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<tr>
<td>09:00</td>
<td>Welcome</td>
<td>Announcements</td>
<td>Summary Young Researchers Workshop</td>
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<td>09:10</td>
<td>Keynote: Herb Clark</td>
<td>Keynote: Raja Chatila</td>
<td>Keynote: Harold Bekkering</td>
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<td>10:10</td>
<td>Short Break</td>
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<tr>
<td>10:20</td>
<td>Generating Haptic-Ostensive Referring Expressions in Cooperative, Task-based Human-Robot Dialogue</td>
<td>Combining Dynamical Systems Control and Programming by Demonstration for Teaching Discrete Bimanual Coordination Tasks to a Humanoid Robot</td>
<td>A comparative psychophysical and EEG study of different feedback modalities for HRI</td>
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<td>10:45</td>
<td>Object Schemas for Responsive Robotic Language Use</td>
<td>Learning Polite Behavior with Situation Models</td>
<td>Theory of Mind (ToM) on Robots: A Functional Neuroimaging Study</td>
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<td>11:10</td>
<td>Coffee Break</td>
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<td>12:05</td>
<td>Poster Teaser Presentations I</td>
<td>How training and experience affect the benefits of autonomy in a dirty-bomb experiment</td>
<td>Crew Roles and Operational Protocols for Rotary-Wing Micro-UAVs in Close Urban Environments</td>
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<td>12:30</td>
<td>Lunch Break</td>
<td>Lunch Break</td>
<td>Lunch Break Informal Posters Student Lego Competition</td>
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<td>14:00</td>
<td>Using a Robot Proxy to Create Common Ground in Exploration Tasks</td>
<td>Simultaneous Teleoperation of Multiple Social Robots</td>
<td>Concepts about the capabilities of computers and robots: A test of the scope of adults’ theory of mind</td>
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<td>14:50</td>
<td>Spiral response-cascades hypothesis -Intrapersonal responding-cascade in gaze interaction</td>
<td>Three Dimensional Tangible User Interface for Controlling a Robotic Team</td>
<td>Design Patterns for Sociality in Human-Robot Interaction</td>
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<td>15:15</td>
<td>Coffee Break</td>
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<td>16:10</td>
<td>Reasoning for a multi-modal service robot considering uncertainty in human-robot interaction</td>
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<td>16:25</td>
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<td>Panel: Robo-ethics</td>
<td>Panel: What is HRI?</td>
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<td>17:00</td>
<td>Poster Teaser Presentations II</td>
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<td>Awards, HRI 2009, Closing Remarks</td>
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<td>17:30</td>
<td>Poster Session, Microsoft Reception</td>
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A Comparative Psychophysical and EEG Study of Different Feedback Modalities for HRI
Xavier Perrin, Ricardo Chavarriaga, Celine Ray, Roland Siegwart, Jose del R. Millan

A Hybrid Algorithm for Tracking and Following People using a Robotic Dog
Martijn Liem, Arnoud Visser, Frans Groen

A Point-and-Click Interface for the Real World: Laser Designation of Objects for Mobile Manipulation
Charlie Kemp, Cressel Anderson, Hai Nguyen, Alexander Trevor, Zhe Xu

A Semi-autonomous Communication Robot - A Field Trial at a Train Station -
Masahiro Shiomi, Daisuke Sakamoto, Takayuki Kanda, Carlos Toshinori Ishi, Hiroshi Ishiguro, Norihiro Hagita

Achieving Fluency through Practice in Human-Robot Collaboration
Guy Hoffman, Cynthia Breazeal

Assessing Cooperation in Human Control of Heterogeneous Robots
Jijun Wang, Huadong Wang, Michael Lewis

Ben Robins, Kerstin Dautenhahn, Rene te Boekhorst, Chrystopher L. Nehaniv

Beyond Dirty, Dangerous and Dull: What Everyday People Think Robots Should Do
Leila Takayama, Wendy Ju, Clifford Nass

Combining Dynamical Systems Control and Programming by Demonstration for Teaching Discrete Bimanual Coordination Tasks to a Humanoid Robot
Elena Gribovskaya, Aude Billard

Compass Visualization for Human-Robotic Interaction
Curtis Humphrey and Julie A. Adams

Concepts about the capabilities of computers and robots: A test of the scope of adults’ theory of mind
Daniel Levin, Stephen Killingsworth, Megan Saylor

Construction and Evaluation of a Model of Natural Human Motion based on Motion Diversity
Takashi Minato, Hiroshi Ishiguro

Crew Roles and Operational Protocols for Rotary-Wing Micro-UAVs in Close Urban Environments
Robin Murphy, Kevin Pratt, Jenny Burke

Crossmodal Content Binding in Information-Processing Architectures
Henrik Jacobsson, Nick Hawes, Geert-Jan Kruijff, Jeremy Wyatt

Decision-Theoretic Human-Robot Communication
Tobias Kaupp, Alexei Makarenko

Design Patterns for Sociality in Human-Robot Interaction
Peter Kahn, Nathan Freier, Takayuki Kanda, Hiroshi Ishiguro, Jolina Ruckert, Rachel Severson, Shaun Kane

Development and Evaluation of a Flexible Interface for a Wheelchair Mounted Robotic Arm
Katherine Tsui, Holly Yanco, David Kontak, Linda Beliveau

Enjoyment, intention to use and actual use of a conversational robot by elderly people
Marcel Heerink, Ben Kr’se, Bob Wielinga, Vanessa Evers
Governing Lethal Behavior: Embedding Ethics in a Hybrid Deliberative/Reactive Robot Architecture - Part I: Motivation and Philosophy
Ronald Arkin

Housewives or Technophiles?: Understanding Domestic Robot Owners
Ja-Young Sung, Rebecca Grinter, Henrik Christensen, Lan Guo

How Close? Model of Proximity Control for Information-presenting Robots
Fumitaka Yamaoka, Takayuki Kanda, Hiroshi Ishiguro, Norihiro Hagita

How People Anthropomorphize Robots
Susan Fussell, Sara Kiesler, Leslie Setlock, Victoria Yew

How Quickly Should Communication Robots Respond?
Toshiyuki Shiwa, Takayuki Kanda, Michita Imai, Hiroshi Ishiguro, Norihiro Hagita

How training and experience affect the benefits of autonomy in a dirty-bomb experiment
David Bruemmer, Curtis Nielsen, David Gertman

Human Emotion and the Uncanny Valley: A GLM, MDS, and ISOMAP Analysis of Robot Video Ratings
Chin-Chang Ho, Karl MacDorman, Z. A. Dwi Pramono

Human to Robot Demonstrations of Routine Home Tasks: Exploring the Role of the Robot's Feedback
Nuno Otero, Aris Alissandrakis, Kerstin Dautenhahn, Chrystopher Nehaniv, Dag Syrdal, Kheng Lee Koay

Hybrid Tracking of Human Operators using IMU/UWB Data Fusion by a Kalman Filter
J. A. Corrales, F. A. Candelas, F. Torres

Integrating vision and audition within a cognitive architecture to track conversations
Greg Trafton, Magdalena Bugajska, Benjamin Fransen, Raj Ratwani

Learning Polite Behavior with Situation Models
James CROWLEY, Remi BARRAQUAND

Loudness Measurement of Human Utterance to a Robot in Noisy Environment
Satoshi KAGAMI, Yoko SASAKI, Simon THOMPSON, Tomoaki FUJIHARA, Tadashi ENOMOTO, Hiroshi MIZOGUCHI

Multi-Thresholded Approach to Demonstration Selection for Interactive Robot Learning
Sonia Chernova, Manuela Veloso

Object Schemas for Responsive Robotic Language Use
Kai-yuh Hsiao, Soroush Vosoughi, Stefanie Tellex, Rony Kubat, Deb Roy

Reasoning for a Multi-Modal Service Robot Considering Uncertainty in Human-Robot Interaction
Sven Schmidt-Rohr, Steffen Knoop, Martin Lüscher, Rüdiger Dillmann

Relational vs. Group Self-Construal: Untangling the Role of National Culture in HRI
Vanessa Evers, Heidy Maldonado, Talia Brodecki, Pamela Hinds

Robot Social Presence and Gender: Do Females View Robots Differently than Males?
Paul Schermerhorn, Matthias Scheutz, Charles Crowell

Robotic Animals Might Aid in the Social Development of Children with Autism
Cady Stanton, Peter Kahn, Rachel Severson, Jolina Ruckert, Brian Gill

Robotics Operator Performance in a Military Multi-Tasking Environment
Jessie Chen, Michael Barnes
Robots in Organizations: The Role of Workflow, Social, and Environmental Factors in Human-Robot Interaction
*Bilge Mutlu, Jodi Forlizzi*

Simultaneous Teleoperation of Multiple Social Robots
*Dylan Glas, Takayuki Kanda, Hiroshi Ishiguro, Norihiro Hagita*

Spiral response-cascade hypothesis -Intrapersonal responding-cascade in gaze interaction-
*Yuichiro Yoshikawa, Shunsuke Yamamoto, Hidenobu Sumioka, Hiroshi Ishiguro, Minoru Asada*

Supervision and Motion Planning for a Mobile Manipulator Interacting with Humans
*Emrah Akin Sisbot, Aurelie Clodic, Rachid Alami, Maxime Ransan*

The Roles of Haptic-Ostensive Referring Expressions in Cooperative, Task-based Human-Robot Dialogue
*Mary Ellen Foster, Ellen Gurman Bard, Markus Guhe, Robin L. Hill, Jon Oberlander, Alois Knoll*

Theory of Mind (ToM) on Robots: A Functional Neuroimaging Study
*Frank Hegel, Soeren Krach, Tilo Kircher, Britta Wrede, Gerhard Sagerer*

Three Dimensional Tangible User Interface for Controlling a Robotic Team
*Paul Lapides, Ehud Sharlin, Mario Costa Sousa*

Toward Multimodal Human-Robot Interaction in Large Scale Virtual Environment
*Pierre Boudoin, Christophe Domingues, Samir Otmane, Nassima Ouramdane, Malik Mallem*

Towards Combining UAV and Sensor Operator Roles in UAV-Enabled Visual Search
*Joseph Cooper, Michael Goodrich*

Understanding Human Intentions via Hidden Markov Models in Autonomous Mobile Robots
*Richard Kelley, Alireza Tavakkoli, Christopher King, Monica Nicolescu, Mircea Nicolescu, George Bebis*

Using a Robot Proxy to Create Common Ground in Exploration Tasks
*Kristen Stubbs, David Wettergreen, Illah Nourbakhsh*