

MoA1: 8:45-10:00	Horace Mann 138
Robots for Physical Rehabilitation (Regular Session)	
Chair: Sho Yokota	Toyo Univ.
08:45-08:57	MoA1.1
<i>A Robotic Coach Architecture for Multi-User Human-Robot Interaction (RAMU) with the Elderly and Cognitively Impaired</i>	
Jing Fan	Vanderbilt Univ.
Linda Beuscher	Vanderbilt Univ.
Paul A. Newhouse	Vanderbilt Univ.
Lorraine C. Mion	Vanderbilt Univ.
Nilanjan Sarkar	Vanderbilt Univ.
08:57-09:09	MoA1.2
<i>Data-Driven Haptic Perception for Robot-Assisted Dressing</i>	
Ariel Kapusta	Georgia Inst. of Tech.
Wenhao Yu	Georgia Inst. of Tech.
Tapomayukh Bhattacharjee	Georgia Inst. of Tech.
Karen Liu	Georgia Inst. of Tech.
Greg Turk	Georgia Inst. of Tech.
Charlie Kemp	Georgia Inst. of Tech.
09:09-09:21	MoA1.3
<i>Design of a Bath Robot System – User Definition and User Requirements Based on International Classification of Functioning, Disability and Health (ICF)</i>	
Jochen Werle	Univ. of Heidelberg, Agaplesion Bethanien Hospital
Klaus Hauer	Univ. of Heidelberg, Agaplesion Bethanien Hospital
09:21-09:33	MoA1.4
<i>Design of an Accompanying Humanoid as a Walking Trainer for the Elderly</i>	
Chiara Piezzo	Univ. of Tsukuba
Kenji Suzuki	Univ. of Tsukuba
09:33-09:45	MoA1.5
<i>Robotic Repositioning of Human Limbs Via Model Predictive Control</i>	

Kevin Chow	Georgia Inst. of Tech.
Charlie Kemp	Georgia Inst. of Tech.
09:45-09:57	MoA1.6
<i>The Ethics of Deploying a Robot – Examples from a Mobile Service Robot at a Care Site for Older Patients</i>	
Tobias Körtner	Academy for Research on Aging
Denise Hebesberger	Academy for Research on Aging
Christoph Gisinger	Danube Univ. Krems

MoA2: 8:45-10:00	Horace Mann 150
Failure and Trust in Human-Robot Interaction (Regular Session)	
Chair: Kerstin Fischer	Univ. of Southern Denmark
08:45-08:57	MoA2.1
<i>Analysis of Reactions Towards Failures and Recovery Strategies for Autonomous Robots</i>	
Daniel Brooks	UMass Lowell
Momotaz Begum	UMass Lowell
Holly Yanco	UMass Lowell
08:57-09:09	MoA2.2
<i>Believing in BERT: Using Expressive Communication to Enhance Trust and Counteract Operational Error in Physical Human-Robot Interaction</i>	
Adriana Hamacher	UCL
Nadia Berthouze	UCL
Tony Pipe	Univ. of the West of England
Kerstin Eder	Univ. of Bristol
09:09-09:21	MoA2.3
<i>Errare Humanum Est: Erroneous Robots in Human-Robot Interaction</i>	
Marco Ragni	Univ. of Freiburg
Andrey Rudenko	Univ. of Freiburg
Barbara Kuhnert	Univ. of Freiburg
Kai Oliver Arras	Univ. of Freiburg
09:21-09:33	MoA2.4
<i>Just Follow the Suit! Trust in Human-Robot Interactions During Card Game Playing</i>	

Filipa Correia	INESC-ID, Univ. of Lisbon
Patrícia Alves-Oliveira	INESC-ID, Univ. of Lisbon
Nuno Maia	INESC-ID, Univ. of Lisbon
Tiago Ribeiro	INESC-ID, Univ. of Lisbon
Sofia Petisca	INESC-ID, Univ. of Lisbon
Francisco S. Melo	INESC-ID, Univ. of Lisbon
Ana Paiva	INESC-ID, Univ. of Lisbon

09:33-09:45 MoA2.5

Perceived Role of Physiological Sensors Impacts Trust and Reliance on Robots

Monika Lohani	Yale Univ.
Charlene Stokes	Air Force Research Lab
Marissa McCoy	Yale Univ.
Christopher Bailey	Yale Univ.
Aditi Joshi	Yale Univ.
Susan Rivers	Yale Univ.

09:45-09:57 MoA2.6

Playing the 'Trust Game' with Robots: Social Strategies and Experiences

Roberta Cabral Ramos Mota	Univ. of Calgary
Daniel J. Rea	Univ. of Manitoba
Anna Tran	Univ. of Calgary
James Everett Young	Univ. of Manitoba
Ehud Sharlin	Univ. of Calgary
Mario Costa Sousa	Univ. of Calgary

MoA3: 8:45-10:00 Milbank Chapel (Zankel 125)
Interaction with Children (Regular Session)

Chair: Iolanda Iacono Univ. of Siena

08:45-08:57 MoA3.1

Autonomous Disengagement Classification and Repair in Multiparty Child-Robot Interaction

Iolanda Leite	Disney Research
Marissa McCoy	Yale Univ.
Monika Lohani	Yale Univ.
Nicole Salomons	Yale Univ.
Kara McElvaine	Yale Center for Emotional Intelligence
Charlene Stokes	Air Force Research Lab
Susan Rivers	Yale Univ.
Brian Scassellati	Yale Univ.

08:57-09:09 MoA3.2

Child-Robot Spatial Arrangement in a Learning by Teaching Activity

Wafa Johal	EPFL
Alexis Jacq	EPFL
Ana Paiva	INESC-ID, Univ. of Lisbon
Pierre Dillenbourg	EPFL

09:09-09:21 MoA3.3

Children's Peer Assessment and Self-Disclosure in the Presence of an Educational Robot

Shruti Chandra	IST/EPFL
Patrícia Alves-Oliveira	INESC-ID, Univ. of Lisbon
Séverin Lemaignan	Plymouth Univ.
Pedro Sequeira	INESC-ID, IST, Univ. of Lisbon
Ana Paiva	INESC-ID, Univ. of Lisbon
Pierre Dillenbourg	EPFL

09:21-09:33 MoA3.4

Evaluation Methods for User-Centered Child-Robot Interaction

Vicky Charisi	Univ. of Twente
Daniel Davison	Univ. of Twente
Dennis Reidsma	Univ. of Twente
Vanessa Evers	Univ. of Amsterdam

09:33-09:45 MoA3.5

Improving Human-Human Collaboration between Children with a Social Robot

Sarah Strohkorb	Yale Univ.
Ethan Fukuto	Pomona College
Natalie Warren	Yale Univ.
Charles Taylor	Yale Univ.
Bobby Berry	Yale Univ.
Brian Scassellati	Yale Univ.

09:45-09:57 MoA3.6

Study of Children's Hugging for Interactive Robot Design

Joohyung Kim	Disney Research
Alexander Alspach	Disney Research
Iolanda Leite	Disney Research
Katsu Yamane	Disney Research

MoB1: 10:30-11:45	Horace Mann 138
Navigating in Human Environments (Regular Session)	
Chair: TBD	
10:30-10:42	MoB1.1
<i>Anticipatory Robot Path Planning in Human Environments</i>	
Akansel Cosgun	Honda Research Inst.
Emrah Akin Sisbot	Toyota Info Tech. Ctr.
Henrik Iskov Christensen	Georgia Inst. of Tech.
10:42-10:54	MoB1.2
<i>Incorporating Perception Uncertainty in Human-Aware Navigation: A Comparative Study</i>	
Zeynab Talebpour	EPFL
Deepak Geetha	Univ. of Amsterdam
Viswanathan	
Rodrigo Ventura	Univ. of Lisbon
Alcherio Martinoli	Univ. of Twente
Gwenn Englebienne	EPFL
10:54-11:06	MoB1.3
<i>Performance of a Low-Cost, Human-Inspired Perception Approach for Dense Moving Crowd Navigation</i>	
Ishani Chatterjee	Carnegie Mellon Univ.
Aaron Steinfeld	Carnegie Mellon Univ.
11:06-11:18	MoB1.4
<i>Qualitative Constraints for Human-Aware Robot Navigation Using Velocity Costmaps</i>	
Christian Dondrup	Heriot-Watt Univ.
Marc Hanheide	Univ. of Lincoln
11:18-11:30	MoB1.5
<i>The Influence of Following Angle on Performance Metrics of a Human-Following Robot</i>	
Shanee Honig	Ben-Gurion Univ.
dror katz	Ben-Gurion Univ.
Tal Oron-Gilad	Ben-Gurion Univ.
Yael Edan	Ben-Gurion Univ.
11:30-11:42	MoB1.6
<i>Towards an Integrated and Human-Friendly Path Following and Obstacle Avoidance Behaviour for Robots</i>	
Camilla Bassani	Univ. of Genova
Antonello Scalmato	Univ. of Genova

Fulvio Mastrogiovanni Univ. of Genova
Antonio Sgorbissa Univ. of Genova

MoB2: 10:30-11:45	Horace Mann 150
Robotic Mediators (Regular Session)	

Chair: Ana Paiva INESC-ID and Instituto Superior Técnico, Technical Univ. of Lisbon

10:30-10:42	MoB2.1
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Can You Feel Me?: How Embodiment Levels of Telepresence Systems Affect Presence

Jung Ju Choi Ewha Womans Univ.
Sonya Sona Kwak Ewha Womans Univ.

10:42-10:54	MoB2.2
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Designing User Interfaces for Different User Groups: A Three-Way Teleconference System for Doctors, Patients and Assistants Using a Remote Medical Robot

Gerald Stollnberger Univ. of Salzburg
Manuel Giuliani Univ. of Salzburg
Nicole Mirnig Univ. of Salzburg
Manfred Tscheligi Univ. of Salzburg
Krzysztof Arent Wrocław Univ. of Tech.
Kreczmer Bogdan Wrocław Univ. of Tech.
Filip Grzeszczak Wrocław Univ. of Tech.
Dorota Szczesniak-Medical Univ. of Lublin
Stanczyk
Zarczuk Radoslaw Medical Univ. of Lublin
Andrzej Wysokinski Medical Univ. of Lublin

10:54-11:06	MoB2.3
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Evaluating a Mobile Spontaneous Eye Blink Tracker for Use in Tele-Presence HRI As a Low Bandwidth Social Communicative Cue

Chris Bevan Univ. of Bath
Danaë Stanton Fraser Univ. of Bath

11:06-11:18	MoB2.4
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Humanoid Robot Avatars: An 'In the Wild' Usability Study

Paul Bremner Univ. of the West of England
Miriam Koschate Univ. of Exeter
Mark Levine Univ. of Exeter

11:18-11:30	MoB2.5
<i>Imitating Human Movement with Teleoperated Robotic Head</i>	
Priyanshu Agarwal	Univ. of Texas at Austin
Samer Al Moubayed	Walt Disney Imagineering
Alexander Alspach	Disney Research
Joohyung Kim	Disney Research
Elizabeth Carter	The Walt Disney Company
Jill Lehman	Disney Research
Katsu Yamane	Disney Research

11:30-11:42	MoB2.6
<i>Immersed Remotely: Evaluating the Use of Head Mounted Devices for Remote Collaboration in Robotic Telepresence</i>	
Kratz Sven	FX Palo Alto Laboratory
Fred Rabelo Ferreira	Columbia Univ.

MoB3: 10:30-11:45	Milbank Chapel (Zankel 125)
Implicit Human-Robot Communication (Regular Session)	
Chair: TBD	

10:30-10:42	MoB3.1
<i>Between Legibility and Contact: The Role of Gaze in Robot Approach</i>	
Kerstin Fischer	Univ. of Southern Denmark
Lars Christian Jensen	Univ. of Southern Denmark
Daniel Suvei	Univ. of Southern Denmark
Leon Bodenhausen	Univ. of Southern Denmark

10:42-10:54	MoB3.2
<i>Enhancing Human Understanding of a Mobile Robot's State and Actions Using Expressive Lights</i>	
Kim Baraka	Carnegie Mellon Univ.
Stephanie Rosenthal	Carnegie Mellon Univ.
Manuela Veloso	Carnegie Mellon Univ.

10:54-11:06	MoB3.3
<i>Evaluating Intent-Expressive Robot Arm Motion</i>	
Christopher Bodden	Univ. of Wisconsin–Madison
Bilge Mutlu	Univ. of Wisconsin–Madison
Michael Gleicher	Univ. of Wisconsin–Madison

11:06-11:18	MoB3.4
<i>Follow Me: Communicating Intentions with a Spherical Robot</i>	
Miguel Faria	INESC-ID, Univ. of Lisbon
Andrea Costigliola	INESC-ID, Univ. of Lisbon
Patrícia Alves-Oliveira	INESC-ID, Univ. of Lisbon
Ana Paiva	INESC-ID, Univ. of Lisbon

11:18-11:30	MoB3.5
<i>Investigating the Effects of Robotic Motion on Worker's Behavior in Cooperative Working Environments</i>	
Adrian Böckenkamp	TU Dortmund Univ.
Frank Weichert	TU Dortmund Univ.
Gerhard Rinkenauer	Leibniz Association

11:30-11:42	MoB3.6
<i>Postures of a Robot Arm - Window to Robot Intentions?</i>	
Sridatta Chatterjee	Ben-Gurion Univ.
Oren Shriki	Ben-Gurion Univ.
Idit Shalev	Ben-Gurion Univ.
Tal Oron-Gilad	Ben-Gurion Univ.

MoC1: 13:00-14:12	Horace Mann 138
SS: Child-Robot Interaction (Special Session)	
Chair: Hea Won Park	MIT

13:00-13:12	MoC1.1
<i>A Study on the Relationship between Robotic Movement with Animacy and Visual Attention of Young Children</i>	
Jaeryoung Lee	Chubu Univ.
Hirofumi Aoki	Nagoya Univ.
Dimitar Stefanov	Middlesex Univ.
Takahiro Yamamoto	Nagoya Univ.
Goro Obinata	Nagoya Univ.

13:12-13:24	MoC1.2
<i>Effects of Framing a Robot As a Social Agent or As a Machine on Children's Social Behavior</i>	
Jacqueline Kory Westlund	MIT
Marayna Martinez	MIT
Maryam Archie	MIT
Madhurima Das	MIT
Cynthia Breazeal	MIT
13:24-13:36	MoC1.3
<i>Robotic Behavioral Intervention to Facilitate Eye Contact and Reading Emotions of Children with Autism Spectrum Disorders</i>	
Sang-Seok Yun	KIST
Jongsuk Choi	KIST
Sung-Kee Park	KIST
13:36-13:48	MoC1.4
<i>Increasing the Efficacy of Rehabilitation Protocols for Children Via a Robotic Playmate Providing Real-Time Corrective Feedback</i>	
Sergio García-Vergara	Georgia Inst. of Tech.
LaVonda Brown	Georgia Inst. of Tech.
Yu-ping Chen	Georgia State Univ.
Ayanna Howard	Georgia Inst. of Tech.
13:48-14:00	MoC1.5
<i>Should Robots Win or Lose? Robot's Losing Playing Strategy Positively Affects Child Learning</i>	
Kairat Balkibekov	Nazarbayev Univ.
Serik Meirbekov	Nazarbayev Univ.
Nazgul Tazhigaliyeva	Nazarbayev Univ.
Anara Sandygulova	Nazarbayev Univ.
14:00-14:12	MoC1.6
<i>Using Robots to Interview Children about Bullying: Lessons Learned from an Exploratory Study</i>	
Cindy L. Bethel	Mississippi State Univ.
Zachary Henkel	Mississippi State Univ.
Kristen Stives	Mississippi State Univ.
David C. May	Mississippi State Univ.
Deborah Eakin	Mississippi State Univ.
Melinda Pilkinton	Mississippi State Univ.
Alexis Jones	Mississippi State Univ.
Megan Stubbs-Richardson	Mississippi State Univ.

MoC2: 13:00-14:00	Horace Mann 150
Emotional Interaction (Regular Session)	
Chair: TBD	
13:00-13:12	MoC2.1
<i>A Thermal Emotion Classifier for Improved Human-Robot Interaction</i>	
Laura Boccanfuso	Yale Univ.
Quan Wang	Yale Univ.
Iolanda Leite	Walt Disney Imagineering
Beibin Li	Yale Univ.
Colette Torres	Duke Univ.
Lisa Chen	Mt. Holyoke College
Nicole Salomons	Yale Univ.
Claire Foster	Yale Univ.
Erin Barney	Yale Univ.
Yeojin Amy Ahn	Yale Univ.
Brian Scassellati	Yale Univ.
Frederick Shic	Yale Univ.
13:12-13:24	MoC2.2
<i>Baseline CNN Structure Analysis for Facial Expression Recognition</i>	
Minchul Shin	KAIST
Munsang Kim	KIST
Dong-Soo Kwon	KAIST
13:24-13:36	MoC2.3
<i>Emotional Sharing Behavior for a Social Robot in a Competitive Setting</i>	
Sofia Petisca	INESC-ID, Univ. of Lisbon
João Dias	INESC-ID, Univ. of Lisbon
Patrícia Alves-Oliveira	INESC-ID, Univ. of Lisbon
Ana Paiva	INESC-ID, Univ. of Lisbon
13:36-13:48	MoC2.4
<i>Improving the Predictive Performance of SAFEL: A Situation-Aware Fear Learning Model</i>	
Caroline Rizzi	Univ. of Kent
Colin Graeme Johnson	Univ. of Kent
Patricia A. Vargas	Heriot Watt Univ.

13:48-14:00	MoC2.5
<i>Who Is in Charge? Sense of control and robot anxiety in Human-Robot Interaction</i>	
Adeline Chanseau	Univ. of Hertfordshire
Kerstin Dautenhahn	Univ. of Hertfordshire
Kheng Lee Koay	Univ. of Hertfordshire
Maha Salem	Univ. of Hertfordshire

13:48-14:00	MoC3.5
<i>Moral Judgments of Human vs. Robot Agents</i>	
John Voiklis	Brown Univ.
Boyoung Kim	Brown Univ.
Corey Cusimano	Univ. of Pennsylvania
Bertram Malle	Brown Univ.

MoC3: 13:00-14:00 Milbank Chapel
(Zankel 125)
Ethics, Morality, and Judgment (Regular Session)

Chair: Friederike Eyszel Univ. of Bielefeld

13:00-13:12 MoC3.1

A Model of a Robot's Will Based on Higher-Order Desires

Felix Lindner Univ. of Freiburg

13:12-13:24 MoC3.2

Anticipating Our Future Robotic Society: The Evaluation of Future Robot Applications from a User's Perspective

Maartje M. A. de Graaf Univ. of Twente

Somaya Ben Allouch Saxion Univ.

13:24-13:36 MoC3.3

Human Body Schema Exploration: Analyzing Design Requirements of Robotic Hand and Leg Illusions

Philipp Beckerle Tech. Univ. Darmstadt

Albert De Beir Vrije Univ. Brussel

Tim Schürmann Tech. Univ. Darmstadt

Emilie Caspar Univ. Libre de Bruxelles

13:36-13:48 MoC3.4

Let's Be Honest: A Controlled Field Study of Ethical Behavior in the Presence of a Robot

Jodi Forlizzi Carnegie Mellon Univ.

Thidanun Saensuksopa Carnegie Mellon Univ.

Natalie Michele Salaets System Planning Corp.

Michael Shomin Carnegie Mellon Univ.

Tekin Mericli Carnegie Mellon Univ.

Guy Hoffman Carnegie Mellon Univ.