

SuA1: 9:00-10:15	Horace Mann 138	Siddhartha Srinivasa	Carnegie Mellon Univ.
Natural Language Interaction (Regular Session)		Stephanie Rosenthal	Carnegie Mellon Univ.
Chair: TBD			
09:00-09:12	SuA1.1	10:00-10:12	SuA1.6
<i>Analysis of Multi-Party Human Interaction towards a Robot Mediator</i>		<i>Using Natural Language Feedback in a Neuro-Inspired Integrated Multimodal Robotic Architecture</i>	
Hisato Fukuda	Saitama Univ.	Johannes Twiefel	Univ. of Hamburg
Yoshinori Kobayashi	Saitama Univ.	Xavier Hinaut	INRIA
Yoshinori Kuno	Saitama Univ.	Marcelo Borghetti Soares	Univ. of Hamburg
Akiko Yamazaki	Tokyo Univ. of Tech.	Erik Strahl	Univ. of Hamburg
Keiko Ikeda	Kansai Univ.	Stefan Wermter	Univ. of Hamburg
Keiichi Yamazaki	Saitama Univ.		
09:12-09:24	SuA1.2		
<i>ERICA: The ERATO Intelligent Conversational Android</i>			
Dylan F. Glas	ATR		
Takashi Minato	ATR		
Carlos Toshinori Ishi	ATR		
Tatsuya Kawahara	Kyoto Univ.		
Hiroshi Ishiguro	Osaka Univ.		
09:24-09:36	SuA1.3		
<i>Leveraging Phantom Signals for Improved Voice-Based Human-Robot Interaction</i>			
Randy Gomez	Honda Research Inst.		
Yurii Vasylkiv	Ivano-Frankivsk Nat'l Tech. Univ. of Oil and Gas		
Keisuke Nakamura	Honda Research Inst.		
Takeshi Mizumoto	Honda Research Inst.		
Kazuhiro Nakadai	Honda Research Inst.		
09:36-09:48	SuA1.4		
<i>Maintaining Awareness of the Focus of Attention of a Conversation: A Robot-Centric Reinforcement Learning Approach</i>			
Marynel Vázquez	Carnegie Mellon Univ.		
Aaron Steinfeld	Carnegie Mellon Univ.		
Scott E. Hudson	Carnegie Mellon Univ.		
09:48-10:00	SuA1.5		
<i>Spatial References and Perspective in Natural Language Instructions for Collaborative Manipulation</i>			
Rosario Scalise	Carnegie Mellon Univ.	Vivek Sharma	ESAT-PSI/VISICS, KU Leuven
Shen Li	Carnegie Mellon Univ.	Şule Yıldırım Yayılgan	Norwegian Univ. of Science and Technology
Henny Admoni	Carnegie Mellon Univ.	Luc Van Gool	ETH Zurich

09:48-10:00	SuA2.5
<i>Towards a Model for Automatic Action Recognition for Social Robot Companions</i>	
Ingo Keller Markus Schmuck, Katrín Solveig Lohan	Heriot-Watt Univ. Heriot-Watt Univ. Heriot-Watt Univ.
10:00-10:12	SuA2.6
<i>Unified Robot Learning of Action Labels and Motion Trajectories from 3D Human Skeletal Data</i>	
Chi Zhang Hao Zhang Rui Guo Lynne Parker	Univ. of Tennessee Colorado School of Mines Univ. of Tennessee Univ. of Tennessee
SuA3: 9:00-10:15	Milbank Chapel (Zankel 125)
Haptic Interaction, Control, and Feedback (Regular Session)	
Chair: TBD	
09:00-09:12	SuA3.1
<i>A Low-Cost Sensor Glove with Vibrotactile Feedback and Multiple Finger Joint and Hand Motion Sensing for Human-Robot Interaction</i>	
Paul Weber Elmar Rueckert Roberto Calandra Jan Peters Philipp Beckerle	TU Darmstadt TU Darmstadt TU Darmstadt TU Darmstadt TU Darmstadt
09:12-09:24	SuA3.2
<i>Equipping the Baxter Robot with Human-Inspired Hand-Clapping Skills</i>	
Naomi Fitter Katherine Kuchenbecker	Univ. of Pennsylvania Univ. of Pennsylvania Univ. of Pennsylvania
09:24-9:36	SuA3.3
<i>Haptic Wrist Guidance Using Vibrations for Human-Robot Teams</i>	
Marco Aggravi Gionata Salvietti Domenico Prattichizzo	Univ. of Siena Univ. of Siena Univ. of Siena
09:36-09:48	SuA3.4
<i>Modeling the Interaction Force During a Haptically-Coupled Cooperative Manipulation</i>	
Ehsan Noohi Milos Zefran	Univ. of Illinois at Chicago Univ. of Illinois at Chicago
09:48-10:00	SuA3.5
<i>Towards a Novel Generation of Haptic and Robotic Interfaces: Integrating Affective Physiology in Human-Robot Interaction</i>	
Matteo Bianchi Gaetano Valenza Alberto Greco Mimma Nardelli Edoardo Battaglia Antonio Bicchi Enzo Pasquale Scilingo	Ulstituto Italiano di Tecnologia Univ. of Pisa Univ. of Pisa Univ. of Pisa Univ. of Pisa Ulstituto Italiano di Tecnologia Univ. of Pisa
10:00-10:12	SuA3.6
<i>Wrist and Grasp Myocontrol: Online Validation in a Goal-Reaching Task</i>	
Markus Nowak Beatrice Aretz Claudio Castellini	DLR DLR DLR
SuB1: 10:45-11:45	Horace Mann 138
Art and Aesthetic Interaction (Regular Session)	
Chair: Wendy Ju	Stanford Univ.
10:45-10:57	Sub1.1
<i>How Violinists Alter Sound Volume and Tempo When Expressing Bright and Dark Timbres</i>	
Koji Shibuya Natsumi Hasegawa	Ryukoku Univ. Ryukoku Univ.
10:57-11:09	Sub1.2
<i>Integration Framework for Speech Processing with Live Visualization Interfaces</i>	
David Brodeur Francois Grondin Yazid Attabi Pierre Dumouchel Francois Michaud	Univ. de Sherbrooke Univ. de Sherbrooke Ctr. de Recherche Informatique de Montréal École de Technologie Supérieure Univ. de Sherbrooke
11:09-11:21	Sub1.3
<i>Interacting with Curious Agents: User Experience with Interactive Sculptural Systems</i>	
Matthew Tszi Kiu Chan Robert B. Gorbet Philip Beesley Dana Kulic	Univ. of Waterloo Univ. of Waterloo Philip Beesley Architect Univ. of Waterloo

11:21-11:33	SuB1.4
<i>Painting Creation Method by Impression Feedback to a Painting Generator from an Impression Estimator</i>	
Tetsuro Sato	Tokyo Univ. of Agriculture and Tech.
Kotaro Hayashi	Tokyo Univ. of Agriculture and Tech.
Ikuo Mizuuchi	Tokyo Univ. of Agriculture and Tech.
11:33-11:45	SuB1.5
<i>Robot Humor: How Self-Irony and Schadenfreude Influence People's Rating of Robot Likability</i>	
Nicole Mirlig	Univ. of Salzburg
Susanne Stadler	Univ. of Salzburg
Gerald Stollnberger	Univ. of Salzburg
Manuel Giuliani	Univ. of Salzburg
Manfred Tscheligi	Univ. of Salzburg
SuB2: 10:45-11:45	Horace Mann 150
Programming Robots (Regular Session)	
Chair: TBD	
10:45-10:57	SuB2.1
<i>ActBot: Sharing High-Level Robot AI Scripts</i>	
Clement Creusot	IBM Research Tokyo
10:57-11:09	SuB2.2
<i>Augmented Reality for Industrial Robot Programmers: Workload Analysis for Task-based, Augmented Reality-supported Robot Control</i>	
Susanne Stadler	Univ. of Salzburg
Kevin Kain	Univ. of Salzburg
Manuel Giuliani	Univ. of Salzburg
Nicole Mirlig	Univ. of Salzburg
Gerald Stollnberger	Univ. of Salzburg
Manfred Tscheligi	Univ. of Salzburg
11:09-11:21	SuB2.3
<i>Design and Evaluation of an End-User Friendly Tool for Robot Programming</i>	
Nina Buchina	Eindhoven Univ. of Technology
Sherin Kamel	Eindhoven Univ. of Technology
Emilia I. Barakova	Eindhoven Univ. of Technology
11:21-11:33	SuB2.4
<i>Robot Programming by Non-Experts: Intuitiveness and Robustness of One-Shot Robot Programming</i>	
Eric M. Orendt	Univ. of Bayreuth
Myriel Fichtner	Univ. of Bayreuth
Dominik Henrich	Univ. of Bayreuth
11:33-11:45	SuB2.5
<i>Simplified Industrial Robot Programming: Effects of Errors on Multimodal Interaction in WoZ Experiment</i>	
Zdeněk Materna	Brno Univ. of Technology
Michal Kapinus	Brno Univ. of Technology
Michal Spanel	Brno Univ. of Technology
Vitezslav Beran	Brno Univ. of Technology
Pavel Smrz	Brno Univ. of Technology
SuB3: 10:45-11:45	
Milbank Chapel (Zankel 125)	
Interaction Strategies (Regular Session)	
Chair: TBD	
10:45-10:57	SuB3.1
<i>A Values-Based Dialogue Strategy to Build Motivation for Conversation with Autonomous Conversational Robots</i>	
Uchida Takahisa	ATR, Osaka Univ.
Takashi Minato	ATR
Hiroshi Ishiguro	ATR, Osaka Univ.
10:57-11:09	SuB3.2
<i>Dynamic Generation and Refinement of Robot Verbalization</i>	
Vittorio Perera	Carnegie Mellon Univ.
Sai Selveraj	Carnegie Mellon Univ.
Stephanie Rosenthal	Carnegie Mellon Univ.
Manuela Veloso	Carnegie Mellon Univ.
11:09-11:21	SuB3.3
<i>How to Improve Human-Robot Interaction with Conversational Fillers</i>	
Noel Wigdor	TNO Soesterberg
Joachim de Greeff	Delft Univ. of Tech.
Rosemarijn Looijer	TNO
Mark Neirincx	TNO
11:21-11:33	SuB3.4
<i>Referential Practices. Effects of a Museum Guide Robot Suggesting a Deictic 'Repair' Action to Visitors Attempting to Orient to an Exhibit</i>	
Karola Pitsch	Univ. of Duisburg-Essen
Timo Dankert	Bielefeld Univ.

Raphaela Gehle	Univ. of Duisburg-Essen, Bielefeld Univ.	15:06-15:18	SuC2.4
Sebastian Wrede	Bielefeld Univ.		
11:33-11:45	SuB3.5		
<i>Speech Driven Trunk Motion Generating System Based on Physical Constraint</i>			
Kurima Sakai	ATR, Osaka Univ.		
Takashi Minato	ATR		
Carlos Toshinori Ishi	ATR		
Hiroshi Ishiguro	ATR, Osaka Univ.		
SuC1: 14:30-15:30	Horace Mann 138	15:18-15:30	SuC2.5
K-12 Robotics: Young Future Researchers in Human-Robot Interactive Communication (Invited Session)		<i>What's in a Primitive? Identifying Reusable Motion Trajectories in Narrated Demonstrations</i>	
In this session, we invite local K-12 students that are young future researchers in HRI to come present their robots and work in a poster/demonstration format. We encourage all our RO-MAN conference attendees to come and interact with the next generation HRI researchers.		Anahita Mohseni-Kabir Sonia Chernova Charles Rich Victoria Wu	
SuC2: 14:30-15:30	Horace Mann 150	SuC3: 14:30-15:30	Milbank Chapel (Zankel 125)
Learning from Feedback and Environments (Regular Session)		Interfaces (Regular Session)	
Chair:		Chair: Daniel Szafrir	Univ. of Colorado Boulder
Fulvio Mastrogiovanni	Univ. of Genoa	14:30-14:42	SuC3.1
14:30-14:42	SuC2.1	<i>Look Where You're Going: Visual Interfaces for Robot Teleoperation</i>	
<i>Analysis of Illumination Robustness in Long-Term Object Learning</i>		Jim Vaughan Don Kimber Kratz Sven	
Ingo Keller	Heriot-Watt Univ.		FX Palo Alto Lab.
Katrin Solveig Lohan	Heriot-Watt Univ.		FX Palo Alto Lab.
14:42-14:54	SuC2.2		FX Palo Alto Lab.
<i>Exploring Implicit Human Responses to Robot Mistakes in a Learning from Demonstration Task</i>		14:42-14:54	SuC3.2
Cory Hayes	Univ. of Notre Dame	<i>Motion Synopsis for Robot Arm Trajectories</i>	
Maryam Moosaei	Univ. of Notre Dame	Daniel Rakita Bilge Mutlu Michael Gleicher	
Laurel D. Riek	Univ. of Notre Dame		Univ. of Wisconsin–Madison
14:54-15:06	SuC2.3		Univ. of Wisconsin–Madison
<i>Grounding Action Parameters from Demonstration</i>		14:54-15:06	SuC3.3
Kalesha Bullard	Georgia Inst. of Tech.	<i>Natural User Interface for Lighting Control: Case Study on Desktop Lighting Using Modular Robots</i>	
Baris Akgun	Georgia Inst. of Tech.	Mehmet Mutlu Stephane Bonardi	
Sonia Chernova	Georgia Inst. of Tech.		EPFL
Andrea Lockerd Thomaz	Univ. of Texas at Austin	Massimo Vespiagnani Simon Hauser Alexandre Bernardino Auke Ijspeert	EPFL, BIOROB EPFL, BIOROB IST EPFL

15:06-15:18	SuC3.4	Selma Sabanovic	Indiana Univ.
<i>Projecting Robot Intentions into Human Environments</i>			
Rasmus S. Andersen	Aalborg Univ.		
Ole Madsen	Aalborg Univ.		
Thomas B. Moeslund	Aalborg Univ.		
Heni Ben Amor	Arizona State Univ.		
15:18-15:30	SuC3.5		
<i>Realizing Mixed-Reality Environments with Tablets for Intuitive Human-Robot Collaboration for Object Manipulation Tasks</i>			
Jared Frank	NYU		
Matthew Moorhead	NYU		
Vikram Kapila	NYU		
SuD1: 16:00-17:00	Horace Mann 138		
K-12 Robotics: Young Future Researchers in Human-Robot Interactive Communication			
(Invited Session)			
In this session, we invite local K-12 students that are young future researchers in HRI to come present their robots and work in a poster/demonstration format. We encourage all our RO-MAN conference attendees to come and interact with the next generation HRI researchers.			
SuD2: 16:00-17:00	Horace Mann 150		
SS: Assistive Technologies in Daily Living Environments (Special Session)			
Chair: Kazuyoshi Wada	Tokyo Metropolitan Univ.		
Co-Chair:			
Mihoko Niitsuma	Chuo Univ.		
16:00-16:12	SuD2.1		
<i>Analysis of Category Estimation for Cloud Based Chat Robot</i>			
Eri sato-Shimokawa	Tokyo Metropolitan Univ.		
Yoko Shinoda	Tokyo Metropolitan Univ.		
Tomoya Takatani	Toyota Motor Co.		
Haeyeon Lee	Toyota Motor Co.		
Kazuyoshi Wada	Tokyo Metropolitan Univ.		
Toru Yamaguchi	Tokyo Metropolitan Univ.		
16:12-16:24	SuD2.2		
<i>That Robot Is Not for Me: Addressing Stereotypes of Aging in Assistive Robot Design</i>			
Hee Rin Lee	Indiana Univ.		
Haodan Tan	Indiana Univ.		
16:24-16:36	SuD2.3		
<i>Narratives and Emotions in Seniors Affected by Dementia: A Comparative Study Using a Robot and a Toy</i>			
Iolanda Iacono	Univ. of Siena		
Patrizia Marti	Univ. of Siena		
16:36-16:48	SuD2.4		
<i>Update of Human-Robot Relationship Based on Ethologically Inspired Human-Robot Communication History</i>			
Honoka Kanai	Chuo Univ.		
Mihoko Niitsuma	Chuo Univ.		
16:48-17:00	SuD2.5		
<i>Investigation of Appropriate Response Time for an Animal Type Robot</i>			
Kazuyoshi Wada	Tokyo Metropolitan Univ.		
Yuhri Asano	Tokyo Metropolitan Univ.		
SuD3: 16:00-17:00	Milbank Chapel (Zankel 125)		
Proxemics and Social Formation (Regular Session)			
Chair: Frank Broz	Heriot-Watt Univ.		
16:00-16:12	SuD3.1		
<i>A Fuzzy Data-Based Model for Human-Robot Proxemics</i>			
Tomasz Kosiński	Łódź Univ. of Tech.		
Mohammad Obaid	Koc Univ.		
Paweł Woźniak	t2ilab		
Morten Fjeld	t2ilab		
Jacek Kucharski	Łódź Univ. of Tech.		
16:12-16:24	SuD3.2		
<i>Analysis of an Adaptive Strategy for Equitably Approaching and Joining Human Interactions</i>			
Vishnu K. Narayanan	INRIA		
Anne Spalanzani	INRIA, UPMF		
Ren Luo	National Taiwan Univ.		
Marie Babel	IRISA		
16:24-16:36	SuD3.3		
<i>Robots Learning How and Where to Approach People</i>			
Omar Adair Islas Ramírez	Univ. Pierre Et Marie Curie		
Harmish Khambaita	LAAS-CNRS		
Raja Chatila	ISIR		

Mohamed Chetouani	Univ. Pierre Et Marie Curie
Rachid Alami	LAAS-CNRS
16:36-16:48	SuD3.4

*Stop! That is Close Enough. How Body Postures
Influence Human-Robot Proximity*

Mohammad Obaid	Koc Univ.
Eduardo Sandoval	Univ. of Canterbury
Jakub Zlotowski	Univ. of Canterbury
Elena Moltchanova	Univ. of Canterbury
Christina Anne Basedow	Jacobs Univ. Bremen
Christoph Bartneck	Univ. of Canterbury

16:48-17:00	SuD3.5
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*Utilizing Bluetooth Low Energy to Recognize
Proximity, Touch and Humans*

Marcus Scheunemann	Univ. of Hertfordshire
Kerstin Dautenhahn	Univ. of Hertfordshire
Maha Salem	Univ. of Hertfordshire
Ben Robins	Univ. of Hertfordshire