

Tuesday, Sep 6

8:30 Registration

9:00	Tutorial (T1) - Open-Task Multimodal Conversational Assistants (PART I) <i>João Magalhães and Rafael Ferreira</i>	Doctoral Consortium <i>(Check detailed Program)</i>
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10:30 **Coffee Break**

11:00	Tutorial (T1) - Open-Task Multimodal Conversational Assistants (PART II) <i>João Magalhães and Rafael Ferreira</i>	Doctoral Consortium <i>(Check detailed Program)</i>
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12:30 **Lunch Break**

14:00	Tutorial (T2)- FAtiMA-Toolkit: An accessible tool for the development of socio-emotional agents (PART I) <i>Manuel Guimarães, João Dias, Pedro A. Santos and Joana Campos</i>	Doctoral Consortium <i>(Check detailed Program)</i>
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15:30 **Coffee Break**

16:00	Tutorial (T2) – FAtiMA-Toolkit: An accessible tool for the development of socio-emotional agents (PART II) <i>Manuel Guimarães, João Dias, Pedro A. Santos and Joana Campos</i>	Doctoral Consortium <i>(Check detailed Program)</i>
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17:30 **End of Day**

Wednesday, Sep 7

8:30 Registration

9:30 Welcome – Opening Session

KEYNOTE

10:00 Claudio Pinhanez
“New Challenges and Opportunities in Conversational Agents”

11:00 **Coffee Break**

11:30 **Session 1: Creating IVAs**

Chair: Jonathan Gratch

The Artificial-Social-Agent Questionnaire: Establishing the long and short questionnaire versions

Siska Fitrianie, Merijn Bruijnes, Fengxiang Li, Amal Abdulrahman and Willem-Paul Brinkman

Comprehensive Guidelines for Emotion Annotation

Md. Adnanul Islam, Md. Saddam Hossain Mukta, Patrick Olivier and Md. Mahbubur Rahman

Re-Architecting the Virtual Human Toolkit: Towards an Interoperable Platform for Embodied Conversational Agent Research and Development

Arno Hartholt, Ed Fast, Zongjian Li, Kevin Kim, Andrew Leeds and Sharon Mozgai

12:30 **Lunch Break**

14:00 **Session 2: Health and Dialogue**

Chair: Dirk Heylen

Increasing Resilience and Preventing Suicide: Training and Interventions with a Distressed Virtual Human in Virtual Reality

Tal Nakash, Tom Haller, Maya Shekel, Dan Pollak, Moti Lewenchuse, Anat Brunstein Klomek and Doron Friedman

Can We Talk About Bruno? Exploring Virtual Human Counselors' Spoken Accents and Their Impact on Users' Conversations

Pedro Guillermo Feijóo-García, Mohan Zalake, Heng Yao, Alexandre Gomes de Siqueira and Benjamin Lok

A virtual human interaction using scaffolded ping-pong feedback for healthcare learners to practice empathy skills

Heng Yao, Alexandre Gomes de Siqueira, Anokhi Bafna, Jenelle Richards, Devon Peterkin, Megan L. Rogers, Adriana Foster, Igor Galynker and Benjamin Lok

Training Lay Counselors with Virtual Agents to Promote Vaccination

Prasanth Murali, Farnaz Nouraei, Mina Fallah, Aisling Kearns, Keith Rebello, Teresa O'Leary, Rebecca Perkins, Natalie Pierre Joseph, Julien Dedier, Michael Paasche-Orlow and Timothy Bickmore

Demo Madness

16:00 Chair: Nuno Garcia

[\(*\) Demo Papers in the Conference Proceedings](#)

A Realistic, Multimodal Virtual Agent for the Healthcare Domain (*)

Guido M. Linders, Julija Vaitonytė, Maryam Alimardani, Kiril O. Mitev and Max M. Louwerse

Multimodal Adaptive Empathic Agent Architecture (*)

Mukesh Barange, Sandratra Rasendrasoa, Mael Bouabdelli, Julien Saunier and Alexandre Pauchet

Reusable Virtual Coach for Smoking Cessation and Physical Activity Coaching (*)

Walter Baccinelli, Sven van der Burg, Robin Richardson, Bouke Scheltinga, Nele Albers, Djura Smits, Cunliang Geng, Willem-Paul Brinkman, Jasper Reenalda, Eline Meijer and Lars Ridder

Affective Agents in Augmented Reality: Integrating FAtiMA and Hololens 2

Manuel Guimarães, Joana Campos, João Dias and Pedro A. Santos

Animated Avatars in a Negotiation Game

Lindsey Schweitzer, James Hale, Edward Fast, Johnathan Mell and Jonathan Gratch

Examining the Impact of Emotion and Agency on Negotiator Behavior

Eugene Lee, Zachary McNulty, Alex Gentle, Prerak Tusharkumar Pradhan and Jonathan Gratch

Extending the Menge Crowd Simulation Framework: Visual Authoring in Unity

Michelangelo Diamanti and Hannes Högni Vilhjálmsón

Human-agent teamwork in grid world scenarios developed with MATRX package

Carolina Centeio Jorge, Myrthe L. Tielman and Catholijn M. Jonker

Playing the “Taboo” Game with a Virtual Agent

Ronald Cumbal

Presenting Bot – Interactive agents with data-driven gestures

Yuan He, André Tiago Abelho Pereira and Taras Kucherenko

A Realistic, Multimodal Virtual Agent for the Healthcare Domain

Guido M. Linders, Julija Vaitonytė, Maryam Alimardani, Kiril O. Mitev and Max M. Louwerse

16:30 **Coffee Break**

17:00 **Demo Showcase**

19:00 **End of Day**

Thursday, Sep 8

8:30 Registration

KEYNOTE

9:00 Ruth Aylett

"Expressive behavior, social signals, and embodiment"

10:00 **Coffee Break**

Session 3: Social Adaptation & Emotion

10:30 Chair: Carlos Martinho

Impact of Adaptive Multimodal Empathic Behavior on the User Interaction

Mukesh Barange, Sandratra Rasendrasoa, Maël Bouabdelli, Julien Saunier and Alexandre Pauchet

Don't Walk Between Us: Adherence to Social Conventions When Joining a Small Conversational Group of Agents

Alessandro Iop, Sahba Zojaji and Christopher Peters

A Cautionary Tale of Side-by-side Evaluations while Developing Emotional Expression for Intelligent Virtual Agents

Ricardo Rodrigues, Ricardo Silva, Ricardo Pereira and Carlos Martinho

Preference Interdependencies in a Multi-Issue Salary Negotiation

James Hale, Peter Kim and Jonathan Gratch

How does a virtual human earn your trust? Guidelines to improve willingness to self-disclose to intelligent virtual agents

Christopher You, Rashi Ghosh, Andrew Maxim, Jacob Stuart, Eric Cooks and Benjamin Lok

12:30 **Lunch Break**

Session 4: Behavior Generation

14:00 Chair: Catherine Pelachaud

Tunable Tension for Gesture Animation

Michael Neff

Shaping unbalanced multi-party interactions through adaptive robot backchannels
Ronald Cumbal, Daniel Alexander Kazzi, Vincent Winberg and Olov Engwall

Evaluating Data-Driven Co-Speech Gestures of Embodied Conversational Agents through Real-Time Interaction

Yuan He, André Tiago Abelho Pereira and Taras Kucherenko

15:00 **IVA Awards**

15:30 **Poster Madness**

Chair: Ana Paula Claudio

Adapting conversational strategies to co-optimize agent's task performance and user's engagement

Lucie Galland, Florian Pecune and Catherine Pelachaud

Agent's belief in human teammate's trustworthiness

Carolina Centeio Jorge, Myrthe Tielman and Catholijn Jonker

Boiling the Frog: Ethical and Behavioral impacts of Technological Exposure and Availability

Noah Ari, Nusrath Jahan and Johnathan Mell

Determining Most Suitable Listener Backchannel Type for Speaker's Utterance

Akira Morikawa, Ryo Ishii, Hajime Noto, Atsushi Fukayama and Takao Nakamura

Errare humanum est? A Pilot Study to Evaluate the Human-Likeness of a AI Othello Playing Agent

Enrico Lauletta, Beatrice Biancardi, Antonio Norelli, Maurizio Mancini and Alessandro Panconesi

Examining the Impact of Emotion and Agency on Negotiator Behavior

Eugene Lee, Zachary McNulty, Alex Gentle, Prerak Tusharkumar Pradhan and Jonathan Gratch

Exploring the Uncanny Valley with Furhat

Annika Silvervarg and Isabella Ågren

Extending the Menge Crowd Simulation Framework: Visual Authoring in Unity

Michelangelo Diamanti and Hannes Högni Vilhjálmsón

Motivating Health Behavior Change with a Storytelling Virtual Agent

Hye Sun Yun, Matias Volonte and Timothy Bickmore

Negotiation Game to Introduce Non-linear Utility

James Hale, Harsh Jalan, Nidhi Saini, Shao Ling Tan, Junhyuck Woo and Jonathan Gratch

Pose Augmentation: Mirror The Right Way

Jonathan Windle, David Greenwood, Sarah Taylor and Iain Matthews

Towards a Comprehensive Repair Framework for Human-Chatbot Interaction
Failure: The Case of Rephrasing

Alina Asisof

Towards a Sentiment-Aware Conversational Agent

Isabel Dias, Ricardo Rei, Patricia Pereira and Luísa Coheur

16:00 **Coffee Break & Poster Session**

18:00 **End of Poster Session**

19:30 **Welcome Drink (“Porto de Honra”)**

Location: Faro Story Spot

20:00 **Social Event / Dinner**

Location: Tertúlia Algarvia

Friday, Sep 9

9:30 **Session 5: Human Perception of IVAs**

Chair: Joana Campos

Virtual Backlash: Nonverbal expression of dominance leads to less liking of dominant female versus male agents

Janet Wessler, Tanja Schneeberger, Leon Christidis and Patrick Gebhard

Building the Dream Team: Children's Reactions to Virtual Agents that Model Collaborative Talk

Joseph B. Wiggins, Toni V. Earle-Randell, Dolly Bounajim, Yingbo Ma, Julianna Martinez Ruiz, Ruohan Liu, Mehmet Celepkolu, Maya Israel, Eric Wiebe, Collin F. Lynch and Kristy Elizabeth Boyer

The Need for a Female Perspective in Designing Agent-based Negotiation Support

Katja Bouman, Iulia Lefter, Laurens Rook, Catharine Oertel, Catholijn Jonker and Frances Brazier

10:30 **Coffee Break**

11:00 Effects of Rhetorical Strategies and Skin Tones on Agent Persuasiveness in Assisted Decision-Making

Amama Mahmood and Chien-Ming Huang

"I have an idea!". Enhancing Children's Verbal Creativity through Repeated Interactions with a Virtual Robot

Natalia Calvo-Barajas and Ginevra Castellano

Personality Analysis of Face Swaps: Can They be Used as Avatars?

Leslie Wöhler, Susana Castillo and Marcus Magnor

12:00 **Session 6: Industry Track**

Chair: Tiago Ribeiro

More than buttons on controllers: engaging social interactions in narrative VR games through social attitudes detection

Georgiana Cristina Dobre, Marco Gillies, David C. Ranyard, Russell Harding and Xueni Pan

Industry Forum

Bridging the gap between Academia and Industry: how technology innovation can spark into the industry faster.



13:00 **Closing session / Next IVA reveal**
