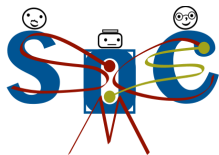# Social cognition in humans and robots
- Conference program -

September 27th- 28th, 2018
University Medical Center Hamburg-Eppendorf
Erika-Haus (W29)
Hamburg, Germany

socSMCs.eu

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H2020

Contents

Venue

University Medical Center Hamburg-Eppendorf

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Website

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Conference organizers

Andreas K. Engel (University Medical Center Hamburg-Eppendorf, Germany)

Peter König (University of Osnabrück, Germany)

Florian Göschl (University Medical Center Hamburg-Eppendorf, Germany)

Annika Lübbert (University Medical Center Hamburg-Eppendorf, Germany)

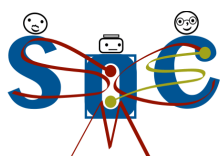Alexander Maye (University Medical Center Hamburg-Eppendorf, Germany)

Mircea Stoica (University Medical Center Hamburg-Eppendorf, Germany)
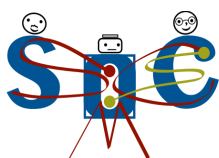
Time Schedule

Conference Program

Thursday, September 27, 2018

8:00— 8:30	Registration, Coffee
8:30— 9:00	Welcome and opening notes from the organizers
9:00—10:00	Invited lecture: **Iain Couzin** (Konstanz, Germany) "Collective sensing and decision-making in animal groups: From fish schools to primate societies"
10:00—10:20	Contributed talk: **Liam Cross** (Buckingham, UK) "Walk it out: Actual and mentally simulated coordinated walking's effects on implicit and explicit attitudes"
10:20—10:40	Contributed talk: **Basil Wahn** (Osnabrück, Germany / Vancouver, Canada) "Collective benefits in dyadic and triadic visual search: The role of receiving information about the actions of co-actors"
10:40—11:00	Coffee break
11:00—12:00	Invited lecture: **Scott Kelso** (Boca Raton, FL, USA) "In search of the laws that bind us"
12:00—12:20	Contributed talk: **Sebastian Lammers** (Cologne / Jülich, Germany) "Understanding "what" or "how" - mirroring or mentalizing other person's actions"
12:20—12:40	Contributed talk: **Atesh Koul** (Torino / Genoa, Italy) "Action observation areas represent intentions from subtle kinematic features"
12:40—13:00	Contributed talk: **Artur Czeszumski** (Osnabrück, Germany) "Does the social situation affect how we process feedback about our actions?"
13:00—14:00	Lunch (& poster session)
14:00—15:00	Invited lecture: **Natalie Sebanz** (Budapest, Hungary) "How t(w)o act together: Coordination mechanisms in human joint action"
15:00—16:00	Invited workshop: **Asaf Bachrach** (Paris, France) "Sensing sensorimotor contingencies – A dance improvisation workshop"
16:00—16:30	Coffee break
16:30—17:30	Invited lecture: **Paul F.M.J. Verschure** (Barcelona, Spain) "The Distributed Adaptive Control of social cognition and action in humans and androids"
17:30—17:50	Contributed talk: **Mathis Jording** (Cologne, Germany) "The experience of interactivity during triadic gaze encounters in autism"
17:50—18:10	Contributed talk: **Christian Guckelsberger** (London, UK) "Guiding social interaction dynamics with coupled empowerment maximisation"
19:00	Social dinner at MS Cap San Diego (en.wikipedia.org/wiki/Cap_San_Diego)

Friday, September 28, 2018

8:30 - 9:00	Coffee
9:00 - 10:00	Poster session
10:00 - 11:00	Invited lecture: **Antonia Hamilton** (London, UK) "Neurocognitive mechanisms of human social interaction"
11:00 - 11:30	Coffee break
11:30 - 11:50	Contributed talk: **Elena Sibirtseva** (Stockholm, Sweden) "Temporal dependencies in multimodal human-robot interaction"
11:50 - 12:10	Contributed talk: **Ouriel Grynszpan** (Paris, France) "The sense of agency in haptic co-manipulation with a human versus a robot"
12:10 - 12:30	Contributed talk: **Cesco Willemse** (Genova, Italy) "Basic mechanisms of social cognition unravelled with the use of humanoid robots"
12:30 - 12:50	Contributed talk: **Judith Bütepage** (Stockholm, Sweden)**, Ali Ghadirzadeh** (Stockholm, Sweden) "Generative sensorimotor models for human-robot interaction"
13:00 - 14:00	Lunch (& poster session)
14:00 - 14:20	Contributed talk: **Elpida Tzafestas** (Athens, Greece / Munich, Germany) "From proto-imitation to proto-association"
14:20 - 14:40	Contributed talk: **Maria Blancas** (Barcelona, Spain) "Measuring collaboration in a predictive game task: a comparison between autistic and neurotypical individuals using the Point of Social Subjective Equality"
14:40 - 15:00	Contributed talk: **Anna Ciaunica** (Porto, Portugal / London, UK) "The multisensory base of bodily coupling in face-to-face social interactions: Contrasting the case of autism with the mobius syndrome"
15:00 - 15:20	Contributed talk: **Alexandra Georgescu** (London, UK / Cologne, Germany) "Evaluating interpersonal synchrony in naturalistic dyadic conversations using motion energy analysis: Lessons from autism spectrum conditions and typical development"
15:30 - 16:30	Invited lecture: **Luciano Fadiga** (Genoa, Italy) "Interaction and communication"
16:30 - 17:00	Concluding remarks and farewell coffee

Poster Presentation

Poster session:
Friday, September 28th 2018   09:00 – 10:00 h

Posters will be presented on Friday. Posters can be hung up already on Thursday. Presenting authors are highlighted in bold (in alphabetical order).

Albers, Friederike (Osnabrück, Germany) "Enhancing priming effects with the embodied cognition approach on free-viewing behavior on news web pages"
Aly, Amir (Kusatsu, Japan) "Towards understanding language through perception in situated human-robot interaction: from words grounding to grammar induction"
Araneda Hinrichs, Nicolás (Concepción, Chile) "New materialism on social cognition"
Arbonville, Jeremy (Paris, France) "Multimodal study of the identification and production of facial expression and the impact of personality traits in normal aging"
Barone, Pamela (Palma, Spain) "The minimal Turing test: reciprocal contingencies for interaction detection"
Blancas-Munos, Maria (Barcelona, Spain) "Measuring collaboration in a predictive game task: a comparison between autistic and neurotypical individuals using the Point of Social Subjective Equality"
Broz, Frank (Edinburgh, UK) "Robot-assisted social skills training for ASD in the workplace"
Ching Low, Sock (Barcelona, Spain) "Focusing attention on the mechanisms of autism"
Czeszumski, Artur (Osnabrück, Germany) "Hyperscanning: a valid method to study neural underpinnings of social interaction"
Falk, Patrick (London, UK) "Dyadic social interaction – high-resolution multimodal data capture & analysis"
Freire, Ismael (Barcelona, Spain) "Modeling the formation of social conventions in multi-agent populations"
Grynszpan, Ouriel (Paris, France) "Investigating learning cued by social versus non-social agents"
Houbre, Quentin (Tampere, Finland) "Exogenous auditory attention with dynamic neural fields"
Hwang, Tonghun (Hannover, Germany) "Leader follower relationship in a joint task"
Korn, Christoph (Hamburg, Germany) "Learning about other persons' personality traits relies on combining reinforcement learning with representations of trait distributions and similarities"
Lancia, Leonardo (Paris, France) "Manipulating verbal interaction via artificial agents to study inter-speaker coordination"

Lübbert, Annika (Hamburg, Germany)
"Relating first and third person observations of coordination and togetherness in social interaction"

Nezami, Farbod N. and **Wächter, Maximilian** (Osnabrück, Germany)
"Project Westdrive: would you trust a robot to drive your car? – a highly realistic VR eye tracking experiment"

Nijssen, Sari (Nijmegen, The Netherlands)
"The influence of agency on motor resonance with robotic actions in 4- and 8-year olds"

Richter, René (Chemnitz, Germany)
"Strengthening priority differentiation through an affective feedback signal from the amygdala"

Rocca, Matilde (Turin, Italy)
"Wired actions: How the representation of others' upcoming movements shapes our kinematics"

Scheunemann, Marcus (Hatfield, UK)
"How intrinsic motivation can affect perceived agency and sustains the social interaction between humans and robots"

Schuberth, Susanne (Osnabrück, Germany)
"Investigating neural correlates of inter-subject movement synchronization using EEG hyperscanning"

Soriano, Marco (Turin, Italy)
"The role of movement kinematics in neural chain selection during action observation"

Strachan, James (Budapest, Hungary)
"To Be Fair... Investigating the drive towards fairness in task distribution"

Sutherland, Alexander (Hamburg, Germany)
"Modulating dialogue transitions through learned verbal emotions"

Tanevska, Ana (Genoa, Italy)
"Are adults sufficiently emotionally expressive to engage in adaptive interaction with an affective robot?"

Thellman, Sam (Linköping, Sweden)
"The socio-cognitive function of mental state attribution to robots"

Trendafilov, Dari (Hatfield, UK)
Poster 1:"Information parsimony in collaborative interaction",
Poster 2:" Interpersonal sensorimotor contingencies: information-theoretic relevance of subjective experience"

Wahn, Basil (Vancouver, Canada)
"Performing a task jointly modulates audiovisual integration in timing and motion judgements"

Ye, Tian (London, UK)
"How motion cues influence visual perspective choice in multi-agent scenario"

Zhou, Yuefang (Potsdam, Germany)
"How human-robot touch interaction affects human physiology and impressions of the robot"