5h International Workshop on Multimodal Analyses enabling Artificial Agents in Human-Machine Interaction MA3HMI 2021

Organizers

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Venue
Virtual – in conjunction with ACII 2021

Important dates:

Submission deadline: June 30, 2021

Notification of Acceptance: July 30, 2021

Camera ready: August 20th, 2021

Workshop date: September 28 or October 1th, 2021

Scope

One of the aims of building multimodal user interfaces is to make the interaction between user and system as natural as possible in a situation as natural as possible. The most natural form of interaction can be considered how we interact with other humans. While the analysis of human-human communication has resulted in many insights, transferring these to human-machine interactions remains challenging. The automated analysis of the interaction has to consider both semantic and affective aspects, including personality, mood, or intentions of the user, anticipating the counterpart. These processes have to be performed in real-time in order for the system to respond without delays, in a natural environment. The MA3HMI workshop series, now at its 5th edition, brings together researchers working on the analysis of multimodal data as a means to develop technical devices that can interact with humans and react on human's affects. In particular, artificial agents can be regarded in their broadest sense, including virtual chat agents, empathic speech interfaces and life-style coaches on a smart-phone. In line with the main conference's theme, we focus on ethical aspect including those in data collection, biases in model development and in the deployment of systems.

Topics

(a) Multimodal environment analyses
- Multimodal understanding of natural interactions' situation and environment to understand the context of affects
- Affect annotation paradigms for user analyses in natural interactions
- Novel strategies of human-machine interaction in terms of situation and environment

(b) Multimodal user analyses
- Multimodal understanding of user behaviour and affective state in natural interactions
- Dialogue management using multimodal output
- Multimodal understanding of multiple users behaviour and affects

(c) Applications, Tools and Systems:
- Ethical issues in developing real-time multimodal affective user interfaces
- Novel application domains and embodied interaction
- User studies with (partial) functional systems

Submissions

Prospective authors are invited to submit full papers (8 pages, 7+1 reference) and short papers (5 pages, 4+1 reference) following the ACII 2021 Latex or Word templates, as specified by ACII 2021. All submissions should be anonymous. Accepted papers will be published in the conference proceedings.

For further information refer to http://ma3hmi.cogsy.de

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