



Call for Papers: Workshop on Modeling Cognitive Processes from Multimodal Data

Multimodal signals allow us to gain insights about internal cognitive processes of a person, for example: Speech and gesture analysis yield cues about hesitations, knowledgeability, or alertness, eye tracking yields information about a person's focus of attention, task, or cognitive state, EEG yields information about a person's cognitive load or information appraisal. Capturing cognitive processes is an important research tool to understand human behavior as well as a crucial part of a user model to an adaptive interactive system such as a robot or a tutoring system. As cognitive processes are often multifaceted, a comprehensive model requires the combination of multiple complementary signals. In this workshop at the ACM International Conference on Multimodal Interfaces (ICMI) conference in Boulder, Colorado, USA, we will discuss the state-of-the-art in monitoring and modeling cognitive processes from signals. We welcome the presentation of evaluation studies, theoretical considerations, data corpora, and novel modeling approaches. Potential topics include but are not limited to:

- Multimodal workload and stress estimation
- Multimodal attention and memory modeling
- Multimodal engagement/frustration/confusion estimation
- Eye tracking in the wild
- Brain-Computer Interfaces and psychophysiological interfaces
- Cognitive modeling
- Experiment design for cognitive processes
- Cognition-adaptive human-computer interfaces

Organizers:

- Felix Putze, University of Bremen
- Jutta Hild, Fraunhofer IOSB
- Enkelejda Kasneci, University of Tübingen
- Akane Sano, MIT Media Lab/Cornell University
- Erin Solovey, Drexel University
- Tanja Schultz, University of Bremen

Manuscripts should be submitted in ACM Conference Proceedings format, and can be from 4 to 8 pages long. Submission will take place using the Precision Conference tool. Submissions will be handled in a double-blind review process, each submission reviewed by at least two external reviewers.

See also our workshop website to keep up to date about news regarding the submission process, announcement of keynote speakers, the workshop program and other important information: <https://www.uni-bremen.de/csl/icmi-2018-mcpmd.html>

Submission deadline: July 30th, 2018

Notification of acceptance: September 9th, 2018

Camera-ready manuscript due: September 16th, 2018

Workshop date: October 16th, 2018