CBAR Tentative Schedule

Session 1:

9h15-9h30 Welcome

9:30 - 10:30
Keynote Speaker1: Daniel Messinger, University of Miami, USA.

<u>**Title:**</u> Sensing development: What can automated measurement of interaction tell us about autism, deafness, and typical development?

<u>**Abstract:**</u>
New sensing technologies and measurement algorithms are providing insight into the social and emotional development of typically developing children and those with communication disorders such as autism and deafness. Computer vision and pattern recognition tools have provided insights into emotional expression and the structure of early social interaction. Modeling of input from Kinect sensors is providing objective measurements of early attachment. Automated analysis of classroom movement and vocal interaction is suggesting how language development takes plan among peers. The talk will consider the strengths, challenges, and future of automated measurement of child behavior.

10:30 – 11:00 Coffee Break

Session 2:

11:00 - 11:30
EEG Analysis of Facial Affect Recognition Process of individuals with ASD: Performance prediction leveraging social context.
Jing Fan, Esube Bekele, Zachary Warren and Nilanjan Sarkar.

11:30 – 12:00
Recognition of Emotional Speech with Convolutional Neural Networks by Means of Spectral Estimates
Norman Weißkirchen, Ronald Böck and Andreas Wendemuth.

12:00 – 12:30
Online Peer-to-peer Discussions: A Platform for Automatic Assessment of Communication Skill.
Sowmya Rasipuram, Rahul Das, Pooja Rao S B and Dinesh Babu Jayagopi.

12:30 – 14:00 Lunch Break

Session 3:

14:00 - 14:30
Multimodal Cross-context Recognition of Negative Interactions.
Iulia Lefter and Leon Rothkrantz.

14:30 – 15:00
Multimodal Stability-Sensitive Emotion Recognition based on Brainwave and Physiological Signals
Nattapong Thammasan, Juan Lorenzo Hagad, Ken-Ichi Fukui and Masayuki Numao

15:00 – 15:30
EmoLiTe - A Database for Emotion Detection During Literary Text Reading.
Rebekah Wegener, Christian Kohlschein, Sabina Jeschke and Stella Neumann

15:30 – 16:00 Coffee Break

Session 3:

16:00 - 17:00
Keynote Speaker2: Julien Epps, University of New South Wales, Australia.

Title: Automatic Assessment of Depression from Speech and Behavioural Signals: An Affective Computing Perspective

Abstract: This is an exciting age for research into automatic recognition and prediction of depression from behavioural signals. On one hand, there is huge opportunity due to the prevalence of depression worldwide and the existing use of observable behaviour in assessments made by clinicians. On the other hand, there are challenges, for example the multi-factorial nature of depression, characterization of depression using behavioural features, dealing with confounding factors, and optimizing the use of multimodal information. This presentation focuses on these challenges and gives an affective computing perspective, providing a comparison between depression assessment and mainstream affective computing and addressing how affective context-specific processing approaches can play a role in automatic assessment of depression. A range of fertile areas for future research will be suggested.

17:00 – 17:30 Panel Discussion

18:00 ACII Welcome Reception