Multimodal Recognition of Personality Traits in Human-Computer and Human-Human Collaborative Tasks.

For D-Day, 20th September 2013

The user’s personality in Human-Computer Interaction (HCI) plays an important role for the overall success of the interaction. The present study focuses on automatically recognizing the Big Five personality traits from 2-5 min long videos, in which the computer interact using different levels of collaboration, in order to elicit the manifestation of these personality traits in the subjects. Emotional Stability and Extraversion are the easiest traits to automatically detect under the different collaborative settings: all the settings for Emotional Stability and intermediate and fully-non collaborative settings for Extraversion. Interestingly, Agreeableness and Conscientiousness can be detected only under a moderately non-collaborative setting. Finally, our task does not seem to activate the full range of dispositions for Creativity.

Ongoing work focuses on Human-Human Interaction, done under the same settings (task, collaboration levels). By September we will already have the results, which will allow us to make a complete analysis of multimodal personality recognition.