ADVANCe

Augmented dialogue tool based on verbal and non-verbal behaviour computing

Realization

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Keywords

- Machine learning
- Video and audio processing

Our skills

Applied Machine Learning, building pre-production software including deep learning algorithms

Valorisation

Technology transfer to industrial partners

Partnership

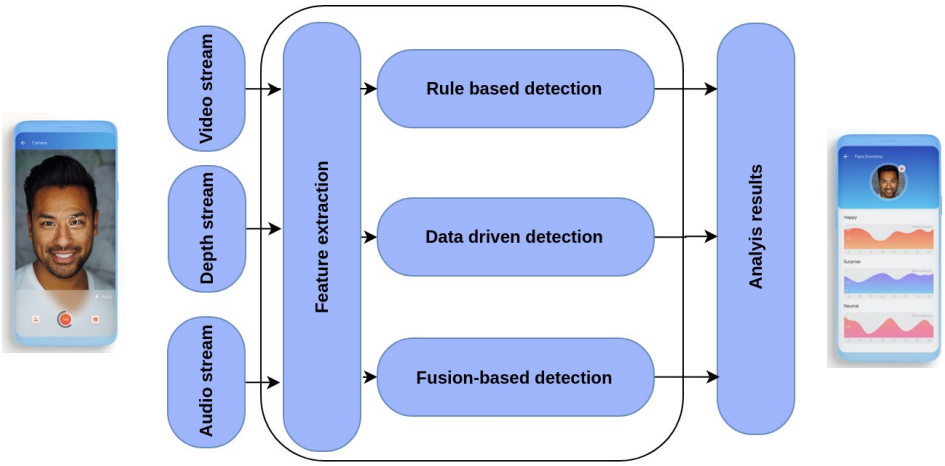
- Institute of Complex Systems – iCoSys
- IDIAP
- CM Profiling

Funding

Swiss Innovation Agency – innosuisse under grant 31933.1 IP-ICT

Schedule

01.03.2019 – 01.09.2020



ADVANCe is an ongoing Innosuisse project that uses the recent advances in machine learning and **deep learning** in the domain of video processing and especially **human behaviour detection** to build a tool to assist recruiters during face to face or video (recruiting) interviews. The goal of the project is to assist the recruiters by giving them cues on verbal and non-verbal indices of the interviewee to enhance the dialogue interaction quality.

The project includes the creation of a **dataset** of videos of real life interview settings. Those videos are recorded using an intel 3D camera. The videos are annotated using a custom developed **video annotation tool**.

Using this dataset a **SaaS tool** is developed to assist recruiters either using a recorded video of the interview, or with a real time analysis of a video 3D video stream. This is achieved by using state of the art machine learning models to extract the verbal and non-verbal cues of the video and analyse them to establish a correlation between visual and audio cues.

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