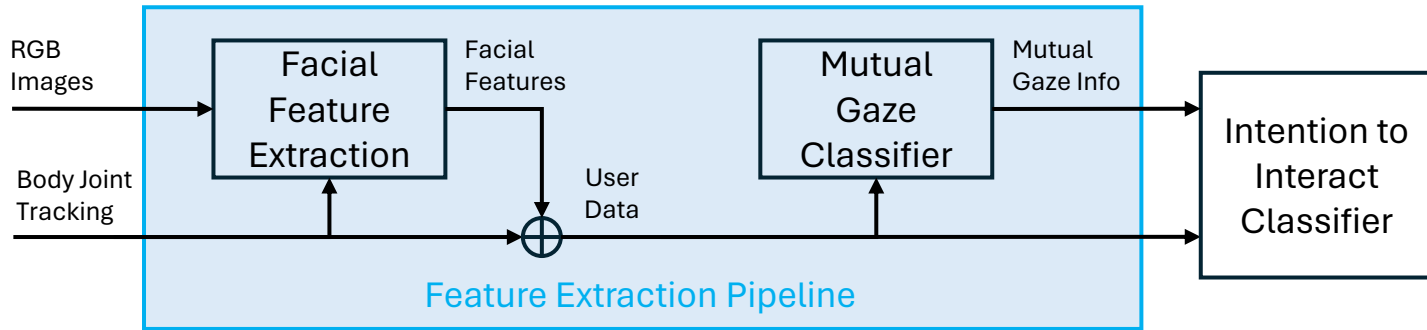# Predicting the Intention to Interact with a Service Robot: the Role of Gaze Cues

S. Arreghini, G. Abbate, A. Giusti, A. Paolillo – IDSIA USI-SUPSI, Lugano, Switzerland

- A **feature extraction pipeline** provides user tracking data

- A **recurrent neural network** estimates **users' probability of interaction**

- **Facial features** and **gaze cues** increase performance at all distances

- A **service robot** offers a chocolate treat only to interested users

- **Self-supervised** adaptation to novel environments