

Lecture.

## **Facial analytics in mobile applications**

In this talk we give a brief presentation of typical facial analysis tasks. We will particularly focus on the automatic extraction of persons and their attributes (gender, year of born) from album of photos and videos. We discuss the two-stage approach, in which, firstly, the convolutional neural network simultaneously predicts age/gender from all photos and additionally extracts facial representations suitable for face identification. In the second stage, extracted faces are grouped using hierarchical agglomerative clustering techniques. The born year and gender of a person in each cluster are estimated using aggregation of predictions for individual photos. The experimental results in facial clustering and video-based age/gender recognition are presented.