

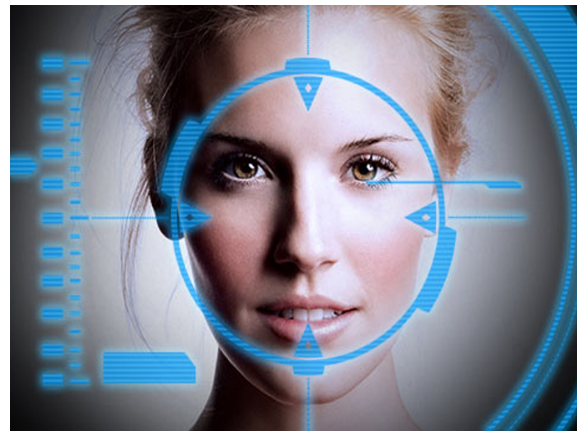


Prof. R. Wattenhofer

Robust Facial Recognition with Convolutional Neural Networks

Facial recognition is an important task, be it tagging your friends on Facebook, logging into your new Surface Book (forget finger print scanners) or during surveillance. (Deep) Neural Networks, especially Convolutional Neural Networks (CNN), achieve state-of-the-art performance in a wide area of image recognition tasks, including facial recognition.

However, CNNs are not very robust against changes in the input, and it is quite easy to cause the network to misclassify samples (e.g. by starting to wear glasses). In this thesis we want to improve the stability of state-of-the-art CNNs for facial recognition. If this sounds interesting to you, do not hesitate to contact us so we can have a chat.



Requirements: Interest in and willingness to study Machine Learning and Deep Learning. There will be weekly meetings to discuss progress and open questions.

Interested? Please contact us for more details!

Contacts

- Gino Brunner: gino.brunner@tik.ee.ethz.ch, ETZ G63
- Yuyi Wang: yuyi.wang@tik.ee.ethz.ch, ETZ 94