Artificial Intelligence Project

v1.0.0   2021-10-10

1 Introduction

1.1 Face and mood detection

We want to create a fun App which can replace people faces with emojis in real time. We want you to create a Proof of Concept of this App.

1.2 Features

- Detect as many faces as possible in real time.
- Detect mood to pick suitable emoji.
- Detect masked persons and display masked emoji 😷.
- Detect head orientation to tilt emoji.
- Use of existing public datasets is allowed.

2 Evaluation

2.1 Grading

To be done in pairs

- Multiple face detection (3 points)
  - in real time (1 point)
- Mood detection (1 point)
- Orientation detection (2 points)
- Emoji placement (1 point)
- Masked people detection and suitable emoji (2 points)
- The App runs on a phone ! (1 point)
- Train the AI ourselves (using public datasets) (2 points)
- Technical report, documentation, and presentation (7 points)

The report, presentation and sources, should be uploaded to claco.

2.2 Presentation

You prepare a 15 minutes presentation to be presented during the exam session. Although the project can be done in groups, the presentation, will however be **individual**.

The presentation will be followed by some general questions about your project and the different algorithms used to make it.

Found an error? Let us know: https://github.com/kenn7/kenn7.github.io/