Deep Vision

Final Project

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face swap

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- **Face swap** goal is to **transfer** a **face image** of one person to **another** given person

- It can be also be used to transfer to **your face** to another **domain**, for example your face wearing a hat, your face with different hair style etc.

face swap

- The face transfer should preserve all other relevant properties of the image, for example:
  - Background
  - Face pose
  - Face position
  - Etc.

face swap

- The resulting transfer should look as realistic as possible

example

face swap

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- **Input:** an image from your web camera with your face
- **Output:** an image transferred to your selected domain

Project limitations

- You can use any open-source implementation, including generated code from ChatGPT

- You must train the a DNN on your own data for the project

- You must understand the theory implemented in the source code

- You must understand and be able to explain the source code

Project limitations

- You will defend the project, and will be asked questions about the implementation

- Deadline for submission: May 22, 2025

- Defend your Project: May 25, 2025

- **Individual Submission**

Project Grading

- **40%** correctness and code readability
- **20%** level of understanding (Defend your project)
- **20%** Performance on 10 unseen images
- **10%** Difficulty level
- **10%** Performance on live video stream

there will be a severe enforcement for copying or cheating!

What to submit

- **All your code**, organized to sections (data set collection, training, inference, etc.)

- **Pdf file**, filling all the blanks according to the instructions

- **Link** to the open-source library used in the project

Good Luck