# Iris Recognition Challenge Supplement

v1 2025.05.09

# Outline

- Schedule
- Data
- Evaluation
- Code Submission
- Report Submission
- Grading

# Schedule

- Evaluation server open
  - 2025/05/11 00:00
- Evaluation server close
  - 2025/06/01 23:59
- Oral presentation
  - 2025/06/06 14:20~15:50 (Tentative)
- Code submission
  - 2025/06/8 23:59
- Report submission
  - 2025/06/8 23:59

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# Data

- Please download all the required files from [Ganzin_supplement4student](#).

# Data

- In run.py, replace the TODO part by your algorithm
- Run the following script to get the output list of predictions
- $ python3 run.py --input <path to your input list> --output <path to your output list>

```python
img1 = cv2.imread(img1_path, cv2.IMREAD_GRAYSCALE)
img2 = cv2.imread(img2_path, cv2.IMREAD_GRAYSCALE)

# TODO: Replace with your algorithm
score = np.random.rand()

output_line = f"{img1_path}, {img2_path}, {score}"
print(output_line)
out_file.write(output_line.rstrip('\n') + '\n')
```

# Data

- Released Data: Thousand, Lamp, Gaze
- You are encouraged to
  - Use any iris recognition method or pretrained model on external datasets
  - Train from scratch or fine-tune on external datasets
- You are not allowed to
  - Directly using pretrained models already trained on released data
  - Train from scratch or fine-tune on testing set of released data

# Data

- In list_*.txt, each line contains the filenames of a comparison pair

```
dataset/CASIA-Iris-Thousand/000/L/S5000L03.jpg, dataset/CASIA-Iris-Thousand/000/L/S5000L06.jpg
dataset/CASIA-Iris-Thousand/000/L/S5000L00.jpg, dataset/CASIA-Iris-Thousand/000/L/S5000L09.jpg
dataset/CASIA-Iris-Thousand/000/L/S5000L01.jpg, dataset/CASIA-Iris-Thousand/000/L/S5000L06.jpg
dataset/CASIA-Iris-Thousand/000/L/S5000L00.jpg, dataset/CASIA-Iris-Thousand/000/L/S5000L06.jpg
dataset/CASIA-Iris-Thousand/000/L/S5000L02.jpg, dataset/CASIA-Iris-Thousand/000/L/S5000L04.jpg
dataset/CASIA-Iris-Thousand/000/L/S5000L03.jpg, dataset/CASIA-Iris-Thousand/000/L/S5000L09.jpg
dataset/CASIA-Iris-Thousand/000/L/S5000L00.jpg, dataset/CASIA-Iris-Thousand/000/L/S5000L02.jpg
```

# Data

- In list_*.txt, each line contains the filenames of a comparison pair
- Append the dissimilarity score at the end of each line (by your algorithm)

```
dataset/CASIA-Iris-Thousand/000/L/S5000L03.jpg, dataset/CASIA-Iris-Thousand/000/L/S5000L06.jpg, 0.3460497900373056
dataset/CASIA-Iris-Thousand/000/L/S5000L00.jpg, dataset/CASIA-Iris-Thousand/000/L/S5000L09.jpg, 0.7478731829104426
dataset/CASIA-Iris-Thousand/000/L/S5000L01.jpg, dataset/CASIA-Iris-Thousand/000/L/S5000L06.jpg, 0.8168728462163521
dataset/CASIA-Iris-Thousand/000/L/S5000L00.jpg, dataset/CASIA-Iris-Thousand/000/L/S5000L06.jpg, 0.7500954903691905
dataset/CASIA-Iris-Thousand/000/L/S5000L02.jpg, dataset/CASIA-Iris-Thousand/000/L/S5000L04.jpg, 0.29848590438825795
dataset/CASIA-Iris-Thousand/000/L/S5000L03.jpg, dataset/CASIA-Iris-Thousand/000/L/S5000L09.jpg, 0.35110357684650495
dataset/CASIA-Iris-Thousand/000/L/S5000L00.jpg, dataset/CASIA-Iris-Thousand/000/L/S5000L02.jpg, 0.36677546753677603
```

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# Evaluation

- Run the following script to get the d'score of your predictions
- $ python3 eval.py  --input <path to your output list>
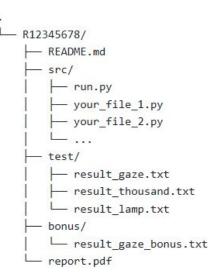
# Evaluation

Codabench

- Our project would be held on Codabench
- Competition Link
- Note that you don't need to submit the results of bonus testing list to Codabench
- Registration Flow
  - Sign up an account  on Codabench
  - Email TA (mplin@media.ee.ntu.edu.tw) with the account name of your team
  - We would only approve registration request once you email us
- The competition is available from 05/11 0:00 to 06/01 23:59

# Code Submission

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# Code Submission

- R12345678/
  - README file
  - Source code (which can reproduce the result on the leaderboard)
  - Output list of predictions
    - Name your result with the specified format
    - Put them under "test" folder
  - Output list of predictions (bonus)
    - Name your result with the specified format
    - Put them under "bonus" folder
  - Brief description of models and your method(pdf file; content is not restricted; serve just as a reference for the selection of teams for oral presentations)
- Compress all the files in a zip file named StudentID.zip (e.g. R12345678.zip)
  - Upon extraction, only one directory named R12345678 should be generated

```
.
└── R12345678/
    ├── README.md
    ├── src/
    │   ├── run.py
    │   ├── your_file_1.py
    │   ├── your_file_2.py
    │   └── ...
    ├── test/
    │   ├── result_gaze.txt
    │   ├── result_thousand.txt
    │   └── result_lamp.txt
    ├── bonus/
    │   └── result_gaze_bonus.txt
    └── report.pdf
```

# Code Submission

- Only the team leader need to upload the code to NTU COOL
- Clearly describe how to set up the environment in the README file
  - Provide steps by steps instruction (ideally a bash script) to build the environment
  - So that TA can reproduce the result
- If we can not reproduce your result on the leaderboard….
  - You will receive 0 point in the performance part
  - However, minor errors are acceptable
- We will excute your code on Linux system
  - Make sure your code can be excuted on Linux system before submission
- Deadline: 2025/06/08 23:59

# Report Submission

- Schedule
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# Report Submission

- Only the team leader need to upload the code to NTU COOL
- For presentation teams…
  - Upload your presentation slide in ppt format
- For other team…
  - Upload your report in pdf format
- Deadline: 2025/06/08 23:59

# Grading

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# Grading

- Performance (60%)
  - CASIA-Iris-Thousand (20%)
  - CASIA-Iris-Lamp (20%)
  - Ganzin-J7EF-Gaze (20%)
- Report (40%) (For Top 10 Teams)
  - Novelty and technical contribution (15%)
  - Experiment completeness (15%)
  - Oral Presentation (10%)
- Report (40%) (For Others)
  - Novelty and technical contribution (20%)
  - Experiment completeness (20%)
- Bonus (10%)
  - The d'score on bonus testing list
  - The baseline would be announced later

| Points (For each Metric) | # of Teams |
|---|---|
| 20% | 1 |
| 19% | 2 |
| 18% | 2 |
| 16% | The rest teams / 4 |
| 15% | The rest teams / 4 |
| 14% | The rest teams / 4 |
| 13% | The rest teams / 4 |

# Reminder

- Please start working on the project as early as possible.
- Please read and follow the rules carefully.
- Taking any unfair advantages (e.g., plagiarism) over other class members is strictly prohibited.
  - Violating university policy would result in F for this course.
- If you have any problems on the project …
  - Issue it on the NTU COOL forum
  - Send email to mplin@media.ee.ntu.edu.tw (林孟平)