EE 4211 Computer Vision

Project summary

Semester B, 2021-2022

Project information(Illustrated on Lecture 3)

- Topics: Image segmentation and object detection
- Four students form a group (file sharing, finalized before Mar. 8)

https://docs.google.com/spreadsheets/d/1b9LiFO4XwFJCpn-eZOOUU18IEQRobP4cRcJid1JtZlI/edit?usp=sharing

- Images: will be provided through Kaggle and Kaggle link will be published Mar. 8
- Codes:
  - Basic codes including the traditional ones and deep learning ones will be provided.
  - Please modify these codes to achieve better performance
- Submission and Evaluation:
  - Codes and reports should be submitted
  - Report writing(will illustrate the writing in tutorial session), results
  - Excellent ones will be invited to present their work in the last lecture and get extra bonus for the marks

Project Information

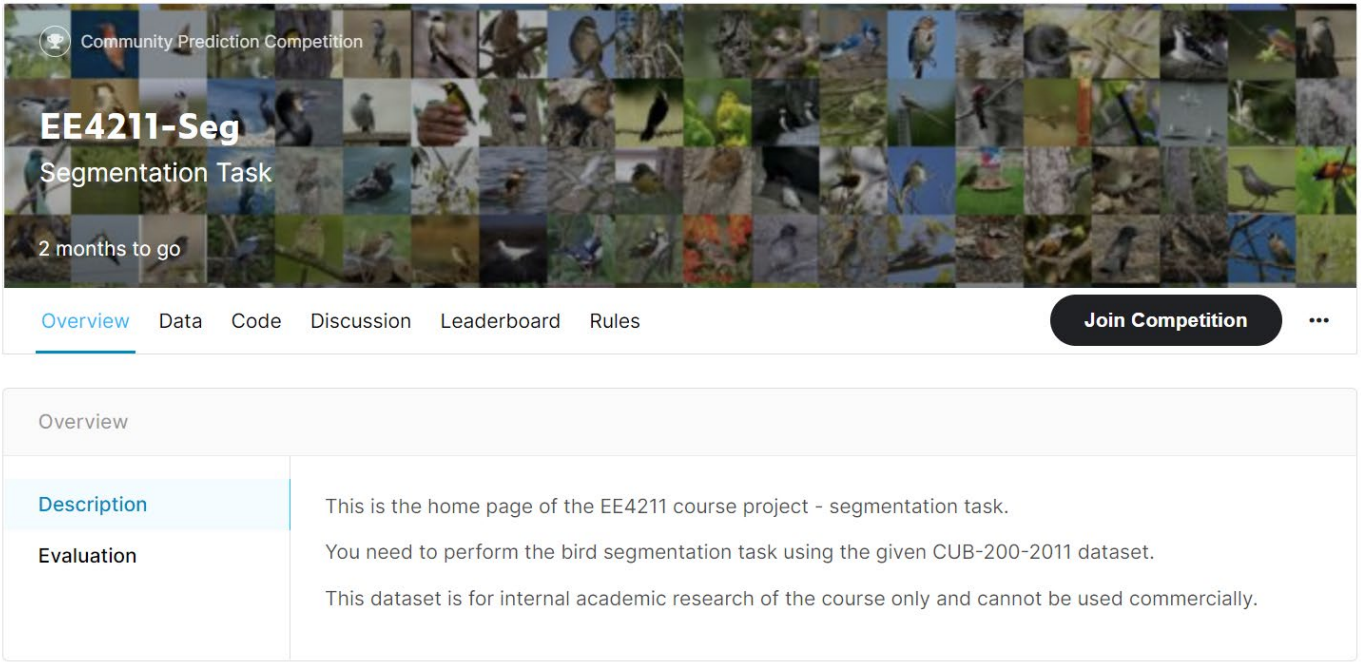
- Updated project information can be found in

https://docs.google.com/spreadsheets/d/1b9LiFO4XwFJCpn-eZOOUU18IEQRobP4cRcJid1JtZlI/edit#gid=0

- As mentioned on Lecture 3, we will finalize the project group information on Mar. 8. Please specify your topics in the excel file. Please choose detection or segmentation, first come, first served. (8 groups for detection and 8 groups for segmentation)

Project Information

- Segmentation https://www.kaggle.com/c/ee4211-seg/overview
- Based on the schedule, TA will illustrate the segmentation codes for you to modify (both traditional one and deep learning one), illustrate how to upload the results and rules on Mar. 15
- You can download the datasets to have a try by yourself before the tutorial



Project Information

- Detection https://www.kaggle.com/c/ee4211-object-detection/overview
- Based on the schedule, TA will illustrate the segmentation codes for you to modify (both traditional one and deep learning one), illustrate how to upload the results and rules on Mar. 29

Workflow

- With the given data and codes, please get familiar with the data and task
- Run the provided codes with the data and see the results
- Modification of the methods to improve the performance
- Re-evaluate the methods (TA will illustrate it the tutorials)
- Write the reports (will illustrate it later)