Final Project Proposal

New Attempt

Due May 24 by 10am **Points** 22 **Submitting** a file upload

Submit the final project proposal as a PDF or PPT file on Canvas by 10am on May 24, 2021. The proposal should not be longer than 2 pages of PDF or 5 slides of PPT.

Note that late submissions will not be allowed, unless there is a justified reason.

Your final project proposal should specify **as precisely as possible** the following:

1) (4 points) Problem statement -- any vision problem is OK. Please think carefully what you want and can do for the final project, since **you will not be able to change the problem statement after May 24, 2021.**

2) (8 points) Approach -- provide an overview figure of your approach that would depict its main modules, as well as the input and output of each module. Briefly describe in text the method(s) that you intend to use to solve your vision problem, and provide motivation and justification as to why you think that the proposed method(s) are suitable. While it would be great to find use of methods we have covered in class in your approach, you may use any other methods of your choice. Specify the open source code you intend to use. Also, describe any additional software implementation that you would need to do for integrating the selected open-source code in your approach. Of course, your final work may differ from your initial project proposal, since typically initial ideas do not give good results in vision.

3) (4 points) Dataset(s) -- identify the dataset(s) that you will use for evaluation; provide the link to the dataset(s). The dataset selection is tightly related to the problem statement. Make sure that you select a dataset that enables evaluation for the proposed vision problem. For the selected dataset, specify: ▶ er of images/videos, split into training and test data, number of classes, and other characteristics of the dataset(s). Motivate as to why the proposed dataset is suitable for evaluation. Describe main challenges of the dataset. **You will not be allowed to change the selected dataset(s) afterMay 24, 2021.** In your final work, you may use additional datasets for evaluation along with the proposed one(s).

4) (2 points) Evaluation metrics -- specify how you will quantitatively evaluate your performance.

5) (4 points) The final project may be an individual or team work. There is no limit for the number of students in a team. If you decide to team up, list the team members. Justify the need for teaming up in terms of the additional amount of work needed relative to a single-person final project. Specify particular tasks for each team member.