CENG 796 - Peer-review form

Reviewed project ID: Group 3

Reviewed project's title (title of the paper): Adaptive Weighted Discriminator for Training Generative Adversarial Networks

Reviewer name(s): Ömer Ege Kara and Feyza Yavuz

Instructions:

- Answer = *Yes*, *No* or *Partial*.
- You may expand sections as necessary.
- For most questions, you do not need to add comments, unless the instructions tell you otherwise.
- "Notebook" refers to "Jupyter Notebook" file that is expected to be named as main.ipynb

Question	**Answer**	**Comments**
Contains a jupyter notebook file	Yes	
Notebook is located at <project_root>/main.ipynb	Yes	
Notebook's first section contains paper information (paper title, paper authors, and project group members' name & contact information) Some good examples: see group03, group10, group11 (and a couple of other groups).	Yes	
Notebook contains a section for hyper-parameters of the model.	Yes	
Notebook contains a section for training & saving the model.	Yes	
Notebook contains a section (or a few sections) for loading a pre-trained model & computing qualitative samples/outputs.	Yes	
Notebook contains reproduced plots and/or tables, as declared.	Yes	
Notebook contains pre-computed outputs.	Yes	

Data is included and/or a proper download script is provided.	Yes	Yes, but not in main.ipynb, in train_sngan.py
Notebook contains a section describing the difficulties encountered.	Yes	
The paper has achieved its goals and/or explained what is missing.	Yes	In goals.txt, well-written explanation is available.
The notebook contains a section that reproduces the figure(s) and table(s) declared in the goals.	Partial	Qualitative and quantitative experiments are provided in main.ipynb. Qualitative results seem sufficient however, FID scores can be improved.
The notebook also reports the original values of the targeted quantitative results, for comparison.	Yes	
MIT License is included.	Yes	
As the reviewer(s), you have read the paper & understood it.	Yes	
Implementation of the model seems correct.	Yes	1. Algorithm 1 (the main contribution of the paper, adaptive weighted discriminative loss) is implemented correctly, according to the paper. 2. General training and testing pipeline seems correct.
Notebook looks professional (in terms of notation, readability, etc.)	Yes	Training logs can be more compact, in this version, it's hard to follow. Losses can be plotted.
Source code looks professional (in terms of coding style, comments, etc.)	Yes	1. Academia standard is generally followed.

Additional comments:

As reviewers, we believe that we understand the general idea and proposed algorithm of the paper, however, detailed proof-reading for mentioned theorems is not done. Project paper consists heavy mathematical formulations, but main idea is easy to understand.