

Week 11 Meeting

2357351G - MSci Half Project

What I've done this week

- Summarised *β -VAE: Learning Basic Visual Concepts with a Constrained Variational Framework (2016)*.
- Began writing up skeleton of interim report with bullet points of content.
- Started re-implementing Style Transfer code in PyTorch (Lightning).
- I've been trying to get Pedalboard to work with external VSTs. However, I've ran into a number of issues.
- Read and summarised A Feature Learning Siamese Model for Intelligent Control of the Dynamic Range Compressor (2019).

Questions

- I would be interested to hear your thoughts on the issue with the Pedalboard library above, i.e. is it worth going with the easier route of using the built-in Pedalboard effects, or trying to alter the BB-DDSP LV2 loader?
- Any feedback on the skeleton of the interim report would be appreciated!

Plan for next week

- Make decision on effects to use (Pedalboard or look at different loaders).
- Continue implementation of model, particularly dataset generation.
- Implement SPSA custom gradient in PyTorch for some toy examples.
- First draft of interim report complete and sent over.

Where I am in schedule

- Still looking on track to have basic architecture complete by Christmas break.
- Made a start on interim report, it will be useful to give myself a deadline for first draft for next week - can then spend last two weeks making any changes.