

# **Learning to Predict Layout-to-image Conditional Convolutions for Semantic Image Synthesis: Ablation Track**

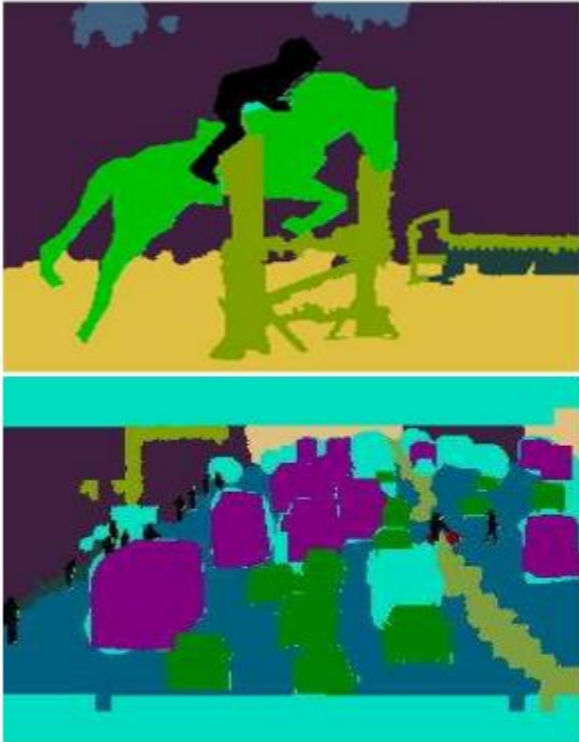
Computer Vision - Project Pitch

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# Introduction

- By using GAN networks, generate the label map into a virtual picture, and try to enhance the realism of generated picture .

Semantic Label Map



pix2pixHD [30]



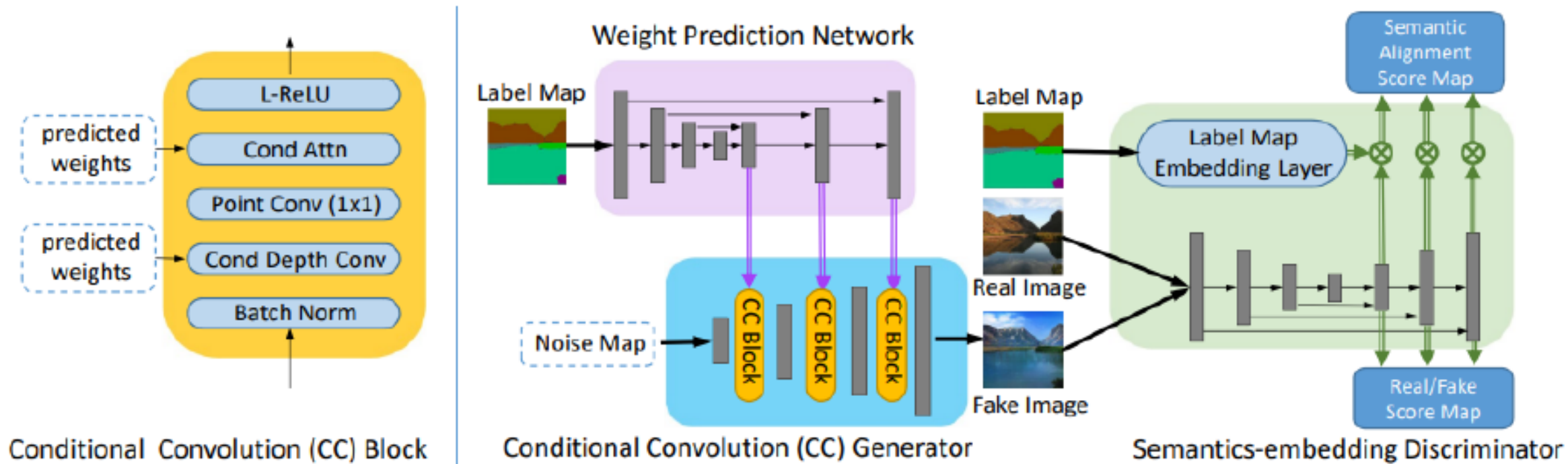
SPADE [26]



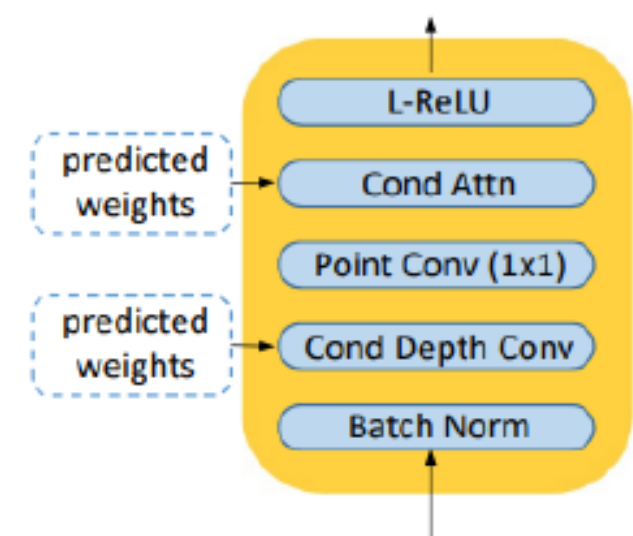
This Paper



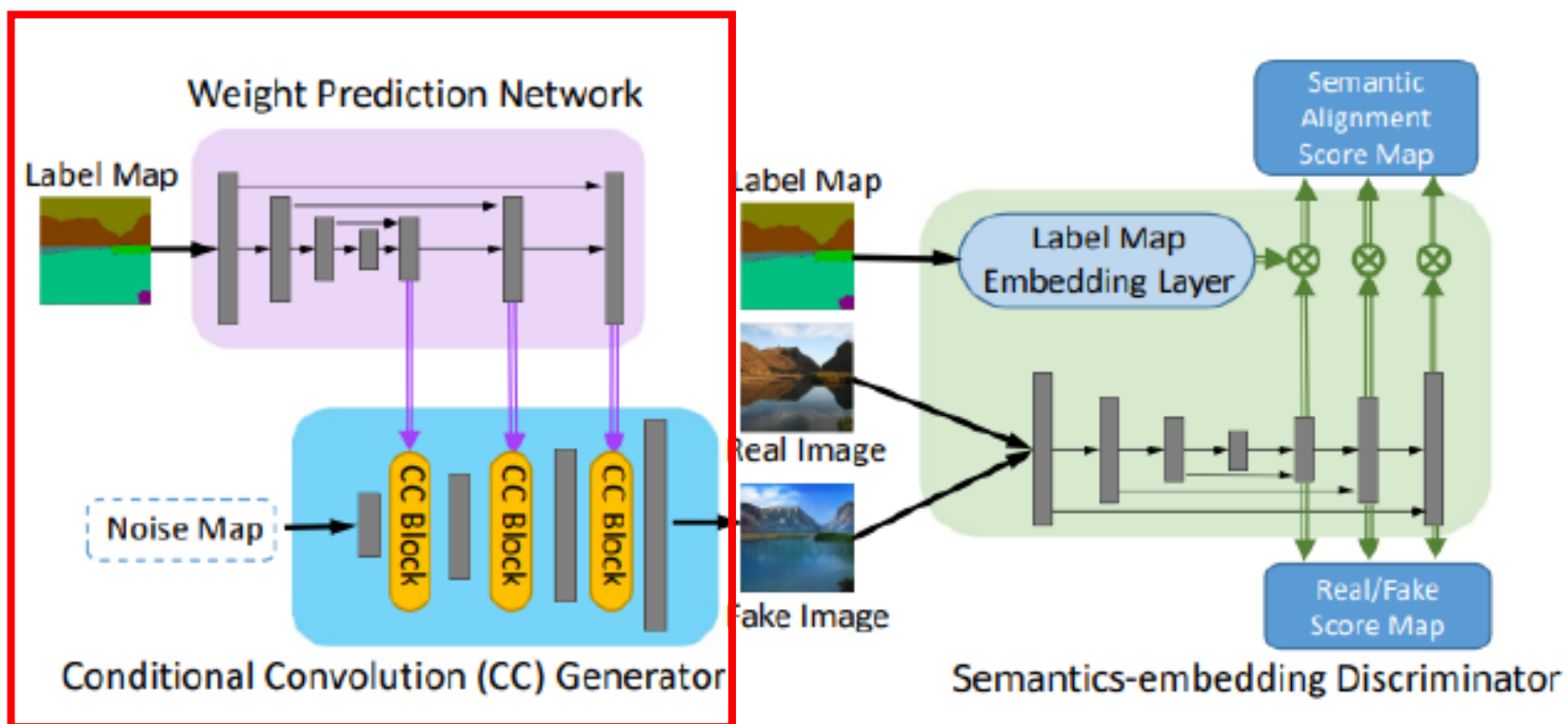
# Method



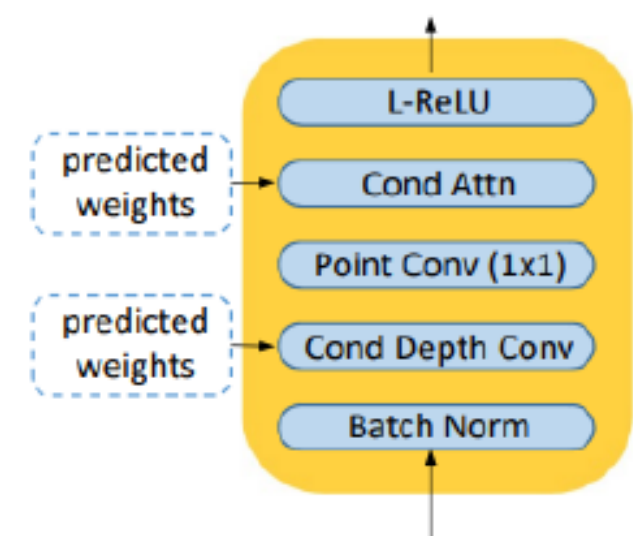
# Method



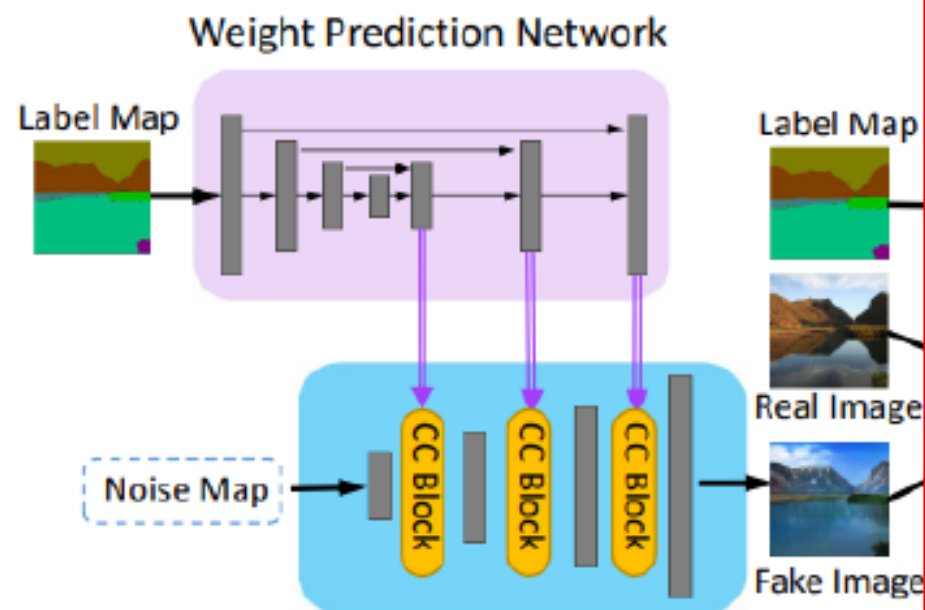
Conditional Convolution (CC) Block



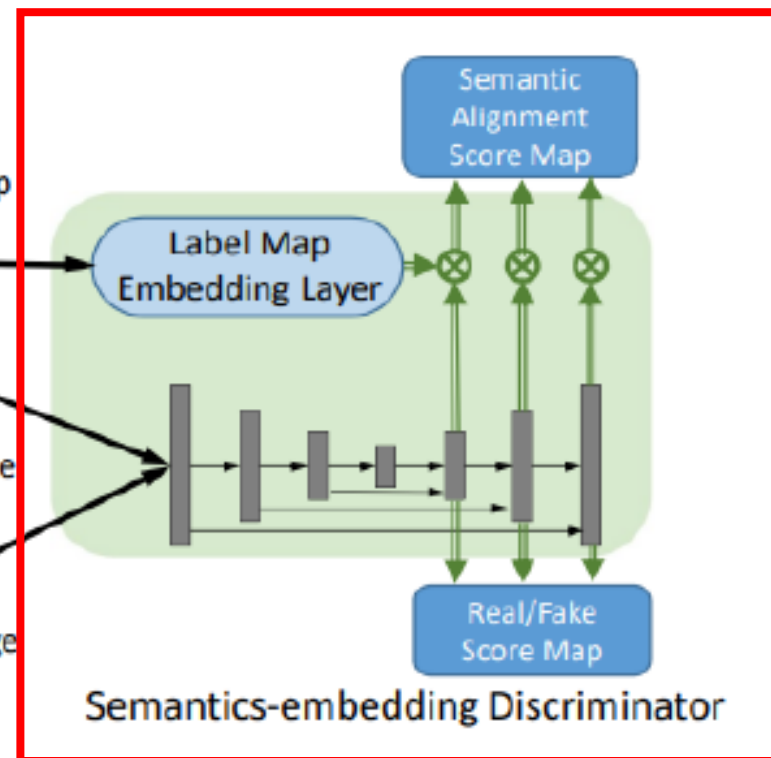
# Method



Conditional Convolution (CC) Block



Conditional Convolution (CC) Generator



Semantics-embedding Discriminator

# Milestones

- ~~10/28: paper survey finished~~
- 10/30: project pitch ← We are here.
- 11/20: midterm-project due
- 12/8: code accomplished (include training & testing)
- 12/15: validation data collected
- 12/18 or 12/25: final project presentation
- 1/5: adjust project & final report finished
- 1/8: final project report due

Thanks for listening.