

Education

Shenzhen University

M.S. IN COMPUTER SCIENCE AND ENGINEERING

Shenzhen, China

Aug. 2017 - Now

Shandong Agricultural University

B.S. IN ELECTRONIC INFORMATION SCIENCE AND TECHNOLOGY

Tai'an, China

Aug. 2008 - July. 2012

Publication

Pair-wise Exchangeable Feature Extraction for Arbitrary Style Transfer

Accepted by AAAI 2020

CHUNJIN SONG*, ZHIJIE WU*, YANG ZHOU, MINGLUN GONG, HUI HUANG

- We propose a novel end-to-end framework to extract exchangeable features to improve the performance of style-transfer task.
- A novel *whitening operation* is also developed to better combine the content and style features.
- Evaluated on the large-scale datasets, the proposed method outperforms other baselines with better visual details.

ETNet: Error Transition Network for Arbitrary Style Transfer

Accepted by NeurIPS 2019

CHUNJIN SONG*, ZHIJIE WU*, YANG ZHOU, MINGLUN GONG, HUI HUANG

- We introduce the concept of error-correction mechanism and error diffusion operation to arbitrary style transfer by evaluating errors in stylization results and correcting them iteratively.
- By explicitly computing the features for perceptual loss in a feed-forward network, each refinement is formulated as an error diffusion process.
- The overall style transfer framework can perform arbitrary style transfer and synthesize highly detailed results with favored styles.

Research Project

Global-to-Local Generative Model for 3D Shapes

Project @ VCC

- We introduce a novel global-to-local(G2L) approach for 3D model generation through building an adversarial network(GAN) to construct the overall structure of the shape while additional local discriminators to help yielding more plausible part geometries.
- A novel conditional auto-encoder (AE) is augmented to act as a part-level refiner.
- We also introduce new means to measure and evaluate the performance of an adversarial generative model especially for part-base generation.

Working Experience

Software Group, Walltech Information Technology Co., Ltd

Shanghai, China

SOFTWARE ENGINEER

March. 2014 - June. 2016

- Participate in building modern logistics software platform with JAVA.
- Daily logistics data analysis and report development.

Software Group, Baozi Information Technology Co., Ltd

Shanghai, China

SOFTWARE ENGINEER

Aug. 2012 - March. 2014

- Participate in the development of large ERP system for freight forwarding company.
- Participate in the development of e-commerce system of freight forwarding company.

Honors & Awards

2019 1st Scholarship Award,

Shenzhen, China

2018 2nd Scholarship Award,

Shenzhen, China

2017 1st Scholarship Award,

Shenzhen, China

Skills

Programming Python, C/C++, Java, Matlab, SQL, HTML5, Javascript

Framework Tensorflow, Qt

Other tools LaTeX, Git