Chunjin Song

MASTER STUDENT · DEEP LEARNING

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Education

Shenzhen University   *Shenzhen, China*
M.S. IN COMPUTER SCIENCE AND ENGINEERING   *Aug. 2017 - Now*

Shandong Agricultural University   *Tai'an, China*
B.S. IN ELECTRONIC INFORMATION SCIENCE AND TECHNOLOGY   *Aug. 2008 - July. 2012*

Publication

Exchangeable Feature Alignment for Arbitrary Style Transfer   *Accepted by AAAI 2020*

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

- The importance of aligning style features between two images is demonstrated.
- We designed a novel Feature Exchange Block as well as a constraint loss function to extract exchangeable features and improve the compatibility level between content and style features.
- A simple yet effective whitening loss is developed to encourage the fusion between content and style information by filtering style patterns in content images.

ETNet: Error Transition Network for Arbitrary Style Transfer   *Accepted by NeurIPS 2019*

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

- Different from existing methods, we break the stylization process into several refinements by introducing the concept of error-correction mechanism and error transition operation to style transfer.
- As for each refinement, we explicitly compute the error features and then diffuse them among the whole images.

Research Project

Global-to-Local Generative Model for 3D Shapes   *Acted as software developer*

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

Working Experience

Visual Computing Center, Shenzhen University   *Shenzhen, China*
RESEARCH ASSISTANT   *June. 2017 - Now*

- Supervised by Dr.Hui Huang, in the area of 3D generative models and style transfer.
- Take part in three projects and published 2 paper, one of which is accepted by NeurIPS2019 while another is accepted by AAAI2020.

Software Group,Walltech Information Technology Co., Ltd   *Shanghai, China*
SOFTWARE ENGINEER   *March. 2014 - June. 2016*

- Be responsible for building modern logistics software platform.
- Analyze the daily logistics data and develop the report system.

Software Group,Baozi Information Technology Co., Ltd   *Shanghai, China*
SOFTWARE ENGINEER   *Aug. 2012 - March. 2014*

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

Honors & Awards

2019	**1nd Scholarship Award,** Top 10% student in CS Department,Shenzhen University	*Shenzhen, China*
2018	**2nd Scholarship Award,** Top 20% student in CS Department,Shenzhen University	*Shenzhen, China*
2017	**1nd Scholarship Award,** Top 10% student in CS Department,Shenzhen University	*Shenzhen, China*

Skills

Programming	Python, C/C++, Java, Matlab, SQL, HTML5, Javascript
Framework	Tensorflow, Qt
Other tools	LaTeX, Git