

JIANJIN XU

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EDUCATION

Tsinghua University

Aug. 2015 - present

Bachelor of Engineering (Anticipated)

Department of Computer Science & Technology

GPA: 3.14, Ranking: 96/139

Top major course grade:

Parallel Computation 4.0

Stochastic Mathematical Methods 3.7

Artificial Neural Networks 3.7

Foundation of Object-Oriented Programming 3.7

Principles & Practice of Compiler Construction 3.7

Students Research Training 4.0

RESEARCH INTERESTS

Deep learning interpretation / Interactive GAN / Neural video stylization

RESEARCH EXPERIENCE

Frame Difference-Based Temporal Loss for Video Stylization

June 2017 -

This project proposes a simple loss function to address the temporal stability problem in video stylization (transfer the style of video into an artwork). In user study, our method performs better than existing methods.

It will be submitted soon, in which I am the 1st author.

Neural Painter: A smart image manipulator based on simple line-drawing

Oct. 2017 -

- This project aims at generating realistic paintings through sketches, especially the one drew by amateurs. We advanced the work of interactive GAN, improved its quality in generation and edit.

The demo of this project is online at 166.111.17.31:2333, which support creation and modification of anime character faces from line-drawings. Extensions to shoes and handbags are also tested.

- I am the leader and 1st contributor.

A simple gomoku AI based on DNN and Monte Carlo Tree Search

Apr. 2016 - July 2016

In the project, a gomoku dataset is collected, a policy network is trained and Monte Carlo Tree Search is implemented.

Our simple AI is evaluated on Renju AI, showing comparative performance.

- This is a course project and in which I am the leader and 1st contributor.