

Neng Shi

Contact Information

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Personal

Date of Birth: June 4, 1996
Nationality: Chinese

Research Interests

Scientific visualization, information visualization, machine learning

Education

School of Earth Sciences, Zhejiang University
B.E. in Geographic Information Science, 2014-2018
Taken the core course of Computer Science and Technology
G.P.A. Overall 3.81/4.0, The last two year 3.89/4.0

Publications

Neng Shi, Yubo Tao *CNNs based Viewpoint Estimation for Volume Visualization*, ACM Transactions on Intelligent Systems and Technology (TIST), 2019

Projects

Shooting Game - An OpenGL-based Videogame Project

Zhejiang University

Apr.2016-Jun.2016

Professor: Hongzhi Wu

We structure gameplay in the first person shooter genre. The user can select the class in which he or she would like to play as, and then complete a level by defeating computer-controlled players of the opposing class in the battle. The game includes several challenging computer graphics elements, including collision detection between the player and enemy characters, and several very complex objects with many thousands of polygons, and animation sequences for enemy characters.

Android based Visualization of Air Pollution

Zhejiang University

Jun.2016-May.2017

Professor: Yubo Tao

Based on a web crawler, we accomplish the visualization of atmospheric pollutants. In an Android app, we visualize them from multiple perspectives such as thermal maps, line graphs and Voronoi diagrams. We also conclude that pollutants are geographically related across cities by further analysis.

CNN based High Efficiency Retrieval Method of Remote Sensing Image

Zhejiang University

Dec.2017-Jun.2018

Professor: Zhenhong Du

We use CNN to extract features of remote sensing images. Then we fine-tune the network structure to learn compact binary codes. Finally, we combine binary codes and high-dimensional vectors for image retrieving.

CNNs based Viewpoint Estimation for Volume Visualization

Zhejiang University

Dec.2017-Jul.2018

Professor: Yubo Tao

We first design an overfit-resistant image rendering pipeline to generate the training images with accurate viewpoint annotations, and then train a category-specific viewpoint classification network to estimate the viewpoint. We also introduce a CNN feature-based image similarity measure for similarity voting based viewpoint selection.

Experiences

Software Engineer

Sept.2014-Jun.2017

Zhejiang University Broadcasting and Television Station

My work mainly includes system backend development. In the three years, I participate in the development of the TV station's Recruiting System, Interview System, Equipment Access System, Course System and so on. In the third year, I lead the integration of the Workflow system as the head of the group. At the same time, I am responsible for the training of new members.

Teaching Assistant

Jul.2017-

NineChapter Algorithm

NineChapter Algorithm is a company aimed at helping Chinese get better jobs in North America. I am the teaching assistant of Algorithm class and Artificial Intelligence training camp. I am responsible for communicating and answering questions for students and reviewing the course project for each one.

Language Ability

Chinese(native)

English(fluent) TOEFL (iBT) score: Overall 103, Speaking 24

C++, Python, Java, Matlab

HONORS AND AWARDS

Zhejiang University Academic Scholarship, 2014-2015, 2015-2016

Third Prize in Zhejiang University Student Programming Competition, 2016

First Prize in China NOIP (National Olympiad in Informatics in Provinces), 2012