Xing Jun

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Room 412, CB

Department of Computer Science

The University of Hong Kong

Education Background

2012.09 - present PhD candidate, Dept. of Computer Science, The University of Hong Kong
2008.09 - 2012.06 Bachelor's Degree, Dept. of Electronic Engineering and Information Science
University of Science and Technology of China (USTC)
GPA:3. 85/4.3

Research Areas

Computer Graphics and Human Computer Interaction. In particular, I am interested in analyzing the dynamic operation workflow, such as digital painting, 3D modeling, writing, etc., to provide "intelligent" help in interactive systems.

Publications

[1] **Jun Xing**, Hsiang-Ting Chen and Li-Yi Wei, "Autocomplete Painting Repetitions", conditional accepted by SIGGRAPH Asia 2014.

Research Projects

2013.01-2014.05: Autocomplete Painting Repetitions
First author, supervised by Li-Yi Wei, HKU

- Designed an interactive digital painting system that auto-completes tedious repetitions while preserving nuanced variations and maintaining natural flows.
- Conditional accepted by SIGGRAPH Asia 2014.

2011.11-2012.06: 3D modeling of the campus
Final Year Project (Bachelor), USTC

- Designed a system aimed to help freshmen applicants and those who are interesting in USTC to know our campus more realistically by constructing a 3D virtual campus with the functions of 3D wandering, navigation, index and overview. The scene is constructed by first scanning the school with 3D scanner and further 3D modeling and texture rendering.
- This project won me the Outstanding Undergraduate of USTC

2011.10-2012.1: Ray tracing
Advised by Li-Yi Wei, assistant professor of CS Dep. HKU

- After reading the book of "An Introduction to Ray Tracing" by Glassner, I traced the animated BART scenes, which includes Kitchen, Museum, and Robots.

2011.05-2011.11: Super-resolution of single image

Research assistant in Institute of Statistical Signal Processing, USTC

- Proposed new algorithm called "Super-resolution via spectral matting", with state-of-the-art performance both visually and qualitatively in PNSR. With this, I won the Outstanding Undergraduate Research Project of USTC.
- Proposed new algorithm "Super-resolution via Multi-level dictionary" by combining K-means and Sparse Representation.

Scholarships and Awards

2012	HKU University Postgraduate Fellowships (UPF)
2012	Outstanding undergraduate of USTC
2011	Second Prize in the CUMCM
2011	National Scholarship
2011	Outstanding undergraduate research project
2009, 2010	National Inspirational Scholarship
2008, 2009	Outstanding Students Scholarship (Grade 2 and 3)