Jinta Zheng

Email: zhengjinta@outlook.com

Research Interests: Computer Graphics, Visualization, Machine Learning

Education

Sept.2012-Jul.2016	B.E (honor) in Computer Science and Technology, Sichuan University, China

Research & Professional Experience

Jul.2017-Present	Research Assistant, Center of Smart Health, School of Nursing, Hong Kong Polytechnic University.
Jul.2016-Jun.2017	Research Intern,
Aug.2015-Jul.2016	Visiting Student, Guangdong Provincial Key Laboratory of Computer Vision and Virtual Reality Technology, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences (SIAT). ♦ Conduct fundamental research on global illumination, volume rendering algorithms and all engineering projects.
Mar.2015-Aug.2015	Research Intern, Institute of computer graphics and image research, Sichuan University.

Publications

C1. **Jinta Zheng,** Tianjin Zhang, Jing Qin. Local Detail Enhancement for Volume Rendering under Global Illumination. *The 24rd Pacific Conference on Computer Graphics and Applications (**Pacific Graphics**) Short paper, pp. 45-50, 2016.*

J1. Tianjin Zhang, **Jinta Zheng**, Binh P. Nguyen et.al. Realistic Rendering of 3D Fetal Ultrasound Data using Photon Mapping. *Computers in Biology and Medicine* 2016(**Submitted**).

J2. Tianjin Zhang, **Jinta Zheng**, Zongrui Yi, Dong Liu, Jing Qin. Realistic Rendering of 3D Fetal Ultrasound via Local Ambient Occlusion. *Journal of Medical Imaging and Health Informatics, Volume 6, Number 7, November 2016, pp. 1776-1781(6).*

J3. Tianjin Zhang, Zongrui Yi, **Jinta Zheng**, DongC. Liu, Wai-Mai Pang, Jing Qin, A clustering-based automatic transfer function design for volume visualization. *Mathematical Problems in Engineering 2016*

Select Projects

Aug.2015-Mar.2016	**Intelligent 3D Ultrasound Rendering Platform (QT, GLSL, CUDA, C++)** Project granted by Shenzhen-Hong Kong Innovation Circle Funding Program (SGLH20131010151755080). A platform contains an improved Photon Mapping algorithm and Ambient Occlusion algorithm for 3D ultrasound rendering to enhance the depth perception and offer more realistic effect.

For more details: Click me!
Major works:

- ♦ Implement the visualization platform
- ♦ Research and improve the algorithms

Apr.2014-Mar.2015 **Code Presenter Pro**

A powerful and light tool, giving stunning code demos in presentations.
The App is **1st Place Winner** of Apps for Office Challenge in **Imagine Cup 2014 World Finals, Seattle** and more than **10 thousand** people download it.
For more details: Click me!
Major works:

- ♦ Team leader, design the project and implement several modules

More

Customer Relationship Management (CRM) System, Sentiment Analysis System, A Game based on Eye Movement Recognition **…**

Awards

2016 **Outstanding Graduates of Sichuan Province(1%);** Outstanding Graduates; Outstanding Graduation Project; Outstanding Engineer

2015 The 3rd Scholarship; Outstanding Student

2014 **The 1st Scholarship(2%);** Outstanding Class Cadre; Innovative Awards

2013 The 2nd Scholarship; Outstanding Student; Innovative Awards

2014 **The 1st Prize in the Microsoft Imagine Cup App for Office Challenge in the Worldwide;**
The prize of office in the Microsoft Imagine Cup App for Office Challenge in the China

2014 **The 1st Prize China International Software Design and Application Competition, Chengdu, Sichuan**

Skills

C/C++, CUDA, JAVA, C#, QT, OpenGL, GLSL