Jinta Zheng

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Research Interests: Computer Graphics, Visualization, Machine Learning

Education

Sept.2012-Jul.2016 B.E in Computer Science and Technology, Sichuan University, China
Overall GPA(86.88/100) top 5%

Research Experience

Aug.2015-Present Research Assistant, Human–Computer Interaction Research Center, 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 Intern, Institute of computer graphics and image research, Sichuan University.

Publications

♦ **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*

♦ **Jinta Zheng**, Tianjin Zhang, Jing Qin. Detail-aware volume rendering under global illumination. *Journal of Computational Visual Media 2016* (**Submitted**).

♦ 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**).

♦ 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* 2016 (**Accepted**).

♦ 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* (**Accepted**).

Select Projects

Mar.2016-Jul.2016 **Enhancement Volume Rendering (QT, GLSL, CUDA, C++)**
New methods enhance local details of volume data under global illumination.
For more details: Click me!
Major works:

♦ Design and implement the algorithms.
♦ Research for related works and write the academic paper.
♦ Communicate with the advisor, co-authors.

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

Mar.2015-Jul.2015 Customer Relationship Management (CRM) System for Railway and Airline
Major works:
♦ Design and implement whole system

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

Jul.2013-Jan.2014 Sentiment Analysis System (MFC, PHP, C++)

A system which could analyze the sentiment of a sentence input by the writer. This project won the First Prize in China International Software Design and Application Competition.
Major works:
♦ Team leader, design and implement the algorithms

Mar.2013-Jul.2013 A Game based on Eye Movement Recognition (OpenCV, OpenGL ES, Java)

Project granted by Students' Innovation and Entrepreneurship Training Program.
A Maze Game which user can use eye to control the game.
Major works:
♦ Design and implement the algorithms

Awards

2016 **Outstanding Graduates of Sichuan Province(3/370);** Outstanding Graduates; Outstanding Graduation Project; Outstanding Engineer
2015 The 3rd Scholarship; Outstanding Student

2014 **The 1st Scholarship(8/370);** 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