Tao Hou

The Ohio State University   Email: hou.332@osu.edu
Computer Science & Engineering   Phone: (614) 404-1696

Education		
The Ohio State University		2016.8 – now
Ph.D., Computer Science & Engineering		
GPA(1st year): 4.0/4.0		
Tsinghua University, China		2010.8 – 2013.7
M.E., Software Engineering		
GPA: 83.18/100		
Fields: Computer Graphics, Geometrical Modeling		
Beijing Institute of Technology, China		2006.9 – 2010.7
B.E., Software Engineering		
GPA: 86.85/100		

Thesis

"A Research on Massive Mesh Simplification and Parallel Iso-surface Extraction"

Master's thesis. On my own, I designed an on-the-fly iso-surface simplification algorithm for massive datasets, and a parallel iso-surface extraction algorithm with the whole set of parallel octree building and traversal methods, using a simplicial partition approach for extraction.

Working Experience

Member of Technical Staff, EUC, **VMware (China)**   2015.7 – 2016.7

Developing features for the PCoIP protocol, which is the core module for VMware's Remote Desktop Application Horizon View.

Senior R&D Engineer, Complex Search, **Baidu**   2013.9 – 2015.6

Developed a modified framework for the online search module servicing special search results.

Teaching Assistant

CSE2111: Spreadsheets & DBs, Lab Instructor, Spring 2017
CSE2321: Discrete Structures, Grader, Autumn 2016
CSE2321: Algorithms, Grader, Autumn 2016

Publications

Tao Hou and Li Chen. **On-the-fly simplification of large iso-surfaces with per-cube vertex modifiability detection**. Journal of Visualization.

Skills

C/C++, Python, Java, CUDA, LaTex, Shell
Linux/Windows Programming