Lu Chen

Gender: Male **Birth:** 1983/7/9
Mobile: (+86)-13575485381 **E-Mail:** chenlu@cad.zju.edu.cn
URL: http://www.cad.zju.edu.cn/home/chenlu/
Address: State Key Lab of CAD&CG, Zijingang Campus, Zhejiang University, P.R.China, 310058

Research Interests

Motion Synthesis, Deformation, Collision Detection, Physical Simulation, Real-time Rendering

Education

Ph. D (Computer Science) **Feb. 2007-Present**
State Key Lab of CAD&CG, College of Computer Science and Engineering, Zhejiang University

Master (Computer Science) **Sep. 2005-Jan. 2007**
State Key Lab of CAD&CG, College of Computer Science and Engineering, Zhejiang University
(Graduate student exempt from entrance examination) *(GPA:3.25/4.0)*

Bachelor (Computer Science) **Sep. 2001-Jun. 2005**
Mixed Honors Class in Chu Kechen Honors College of Zhejiang University *(GPA:3.694/4.0)*

R & D

- 2007.7~Present Developing a research project on motion recovering from the video sequence.
- 2007.4~2007.6 Completed a research project on Collision Determination and the paper "Efficient Collision Determination for Dynamic Scenes using Coherent Separating Axis", which was accepted by the International Conference on Entertainment Computing 2007 and published on The International Journal of Virtual Reality.
- 2006.7~2007.10 Completed a research project on Interpolation & Deformation and the paper "Efficient Mesh Deformation Using Tetrahedron Control Mesh", which has been accepted to ACM Solid and Physical Modeling Symposium 2008.
- 2005.10~2006.3 Completed a research project on Rigid Body Simulation (One-person team). The project is part of a plan cooperated by CAD&CG state key lab of Zhejiang University and SIEMENS™. (I worked 3 months at the research lab of SIEMENS™ in Shanghai for this project)
- 2005.3~2005.5 Cooperated with Zhong Ren in developing a new collision detection algorithm. The algorithm has been purchased by SIEMENS™.
- 2004.7~2005.2 Completed a research project on Global Illumination and the paper "Intersection Fields For Interactive Global Illumination", which was accepted by Pacific Graphics 2005 conference and published on The Visual Computer. (I participated in Pacific Graphics 2005 conference in Macao as co-author)
- 2003.10~2004.6 Participated in the project "X3D standard display platform based on space-time information" (Member of five-person team). It was a sub-topic supported by "National 863 Plan". (Topic Code: 2003AA132040)

Publications

- Jin Huang, **Lu Chen**, Xinguo Liu, Hujun Bao. *Efficient Mesh Deformation Using Tetrahedron Control Mesh.* To appear at ACM Solid and Physical Modeling Symposium 2008
- **Lu Chen**, Wei Hua, Zhong Ren, Hujun Bao. *Efficient Collision Determination for Dynamic Scenes using Coherent Separating Axis.* The International Journal of Virtual Reality, Vol6, No.3, pages17-22, Sep.2007
- Zhong Ren, Wei Hua, **Lu Chen**, Hujun Bao. *Intersection Fields for Interactive Global Illumination.* The Visual Computer, Vol.21, No.8-10,pages569-578,2005
- Jiangping Li, Shensheng Zhang, **Lu Chen**. *An Algorithm for Calculating the Contact Position in Collision Detection.* Computer Simulation (Chinese Journal)

Award & Honor

- Outstanding Student Scholarship of Zhejiang University (2002,2003,2004)
- Excellent Graduate of Zhejiang University-2005
- Excellent Student Cadre/Leader of Zhejiang University-2004
- Excellent All-round Student of Zhejiang University-2004
- Third Prize of Mathematical Contest in Modeling of Zhejiang Province-2003

Social Experience

- Monitor of Chu Kechen honors class (undergraduate)
- Participated in the help-the-poor activity organized by school and completed a report about the "Xi Qi Dong Shu" project in Anhui Province.