



# Jianwei Guo

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## Education

- Sept. 2011– Present **Ph.D.**, National Laboratory of Pattern Recognition, Institute of Automation, Chinese Academy of Sciences, Beijing,  
Supervisor: Prof. Xiaopeng Zhang, Assoc. Prof. Dongming Yan,  
Major: Computer Applications Technology.
- Apr. 2014– Present **Visiting Scholar PhD Student**, Visual Computing Research Center , Shenzhen Institutes of Advanced Technology, Shenzhen,  
Supervisor: Prof. Oliver Deussen, Assoc. Prof. Zhanglin Cheng.
- Sept. 2007– June 2011 **B.Eng.**, School of Software, Shandong University, Jinan,  
Major: Digital Media Technology.

## Research Interests

Computer Graphics    Geometric Processing, 3D Shape Analysis, Plant Modeling

## Research Experiences

- January 2013– **Research on 3D Shape Primitive Recognition, Extraction and Application**, National Natural Science Foundation of China (NSFC,No.61271431).
- January 2014– **Research on Maximal Poisson-disk Sampling and its Applications in Media Processing**, National Natural Science Foundation of China (NSFC,No.61372168).
- January 2014– **Research on Refined 3D reconstruction from multiple-source data and large-scale fast realistic presentation of urban vegetation**, National Natural Science Foundation of China (NSFC,No.61331018).

## Publications

- Published (7) Jianwei Guo, Dong-ming Yan, Xiaohong Jia, Xiaopeng Zhang, "**Efficient Maximal Poisson-disk Sampling and Remeshing on Surfaces**", *Computers & Graphics (Proceedings of SMI 2014)*, 46: 72-79, February 2015. (won **Honorable Mention Best Paper Award** at SMI)

- (6) Dong-ming Yan, Jianwei Guo, Xiaohong Jia, Xiaopeng Zhang, Peter Wonka, "**Blue-Noise Remeshing with Farthest Point Optimization**", *Computer Graphics Forum (Proceedings of SGP 2014)*, 33(5): 167-176, 2014.
- (5) Jianwei Guo, Dong-ming Yan, Guanbo Bao, Weiming Dong, Peter Wonka, Xiaopeng Zhang, "**Efficient Triangulation of Poisson-disk Sampled Point Sets**", *The Visual Computer (Proceedings of CGI 2014)*, 30(6-8): 773-785, 2014.
- (4) Jianwei Guo, Dong-ming Yan, Er Li, Weiming Dong, Peter Wonka, Xiaopeng Zhang, "**Illustrating the Disassembly of 3D Models**", *Computers & Graphics (Proceedings of SMI 2013)*, 37(6), 574-581, 2013.
- (3) Xavier Bonaventura, Jianwei Guo, Weiliang Meng, Miquel Feixas, Xiaopeng Zhang, Mateu Sbert, "**3D shape retrieval using viewpoint information-theoretic measures**", *Computer Animation and Virtual Worlds*, 2013.
- (2) Xavier Bonaventura, Jianwei Guo, Weiliang Meng, Miquel Feixas, Xiaopeng Zhang, Mateu Sbert, "**Viewpoint information-theoretic measures for 3D shape similarity**", *VRCAI 2013*, 183-190.
- (1) Lu Wang, Jian-Wei Guo, Cheng-Lei Yang, Hai-Seng Zhao, and Xiang-Xu Meng, "**O3D-based game learning environments for cultural heritage online education**", *Entertainment for Education, Lecture Notes in Computer Science (Entertainment 2010)*, Volume 6249, pp.417-428, 2010.

Under review

## Patents

Chinese Patents Jianwei Guo, Dong-ming Yan, Weiliang Meng, Xiaopeng Zhang, Weiming Dong. An automatic disassembling method for assembly models. Patent for invention, Application Number: CN201310225943, Open Number: CN103279621A, Date: 2013-09-04.

## Professional Activities

- October 2014 Participate in "Shape Modeling International (SMI) conference", and give an oral presentation, Hong Kong.
- July 2014 Participate in "Symposium on Geometry Processing (SGP) conference", and give an oral presentation, Cardiff, UK.
- June 2014 Participate in "Computer Graphics International (CGI) conference", and give an oral presentation, Sydney, NSW, Australia.
- July 2013 Participate in "Shape Modeling International (SMI) conference", and give an oral presentation, Bournemouth, UK.
- Reviewer VRCAI (2013), ICVRV (2013, 2014).

## Awards

- 2008, 2010 **First Prize Scholarship, Excellent student**, Shandong University.
- 2008, 2009 **National Encouragement Scholarship**, Ministry of Education of the People's Republic of China.

- 2009 **Second Prize Scholarship**, Shandong University.  
2010 **National Scholarship**, Ministry of Education of the People's Republic of China.  
2014 **Outstanding Student Award**, University of Chinese Academy of Sciences.  
2014 **Honorable Mention Best Paper Award**, Shape Modeling International 2014 and Computers & Graphics.

## Skills

- Programming Skillful in C/C++, OpenGL, Qt, LATEX, CUDA  
Language Good English writing and reading skills (CET-6)  
Others Strong ability of self-learning and team work spirit.

## Hobbies

- Reading Literature and technology books  
Sports Football (win several medals in the Football League of CASIA and GUCAS),  
Billiards