Jianwei Guo

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)

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(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 (E-dutainment 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, Billiards

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