

Jianwei Guo

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Education and Research Experiences

09.2011–06.2016	Institute of Automation, Chinese Academy of Sciences	NLPR
	Ph.D., Computer Applications Technology	
04.2015–01.2016	University of Konstanz, Germany	Computer Graphics and Media Informatics
	Visiting Scholar Ph.D. in Computer Graphics	
04.2014–01.2015	Shenzhen Institute of Advanced Technology, CAS	Visual Computing Research Center
	Visiting Ph.D. in Computer Graphics	
09.2007–07.2011	Shandong University	School of Software
	B.S. in Digital Media Technology	

Project Experiences

1. **National Natural Science Foundation of China**, “Refined 3D reconstruction from multiple-source data and large-scale fast realistic presentation of urban vegetation”, main participant, No. 61331018, 2014-2018.
2. **National Natural Science Foundation of China**, “Maximal Poisson-disk Sampling and its Applications in Media Processing”, main participant, No. 61372168, 2014-2017.
3. **National Natural Science Foundation of China**, “3D Shape Primitive Recognition, Extraction and Application”, participant, No. 61271431, 2013-2016.

Publications

1. **Jianwei Guo**, Dong-ming Yan, Xiaopeng Zhang, Oliver Deussen, Peter Wonka. Tetrahedral Meshing via Maximal Poisson-disk Sampling. *Computer Aided Geometric Design (SCI)*, 43, 186-199, 2016
2. **Jianwei Guo**, Dong-ming Yan, Xiaohong Jia, Xiaopeng Zhang. Efficient Maximal Poisson-disk Sampling and Remeshing on Surfaces, *Computers & Graphics (SCI)*, 2014. **Honorable Mention Best Paper Award**
3. **Jianwei Guo**, Dong-ming Yan, Guanbo Bao, Weiming Dong, Peter Wonka, Xiaopeng Zhang. Efficient Triangulation of Poisson-disk Sampled Point Sets, *The Visual Computer (SCI)*, 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 (SCI)*, 37(6), 574-581, 2013.
5. Abdalla G. M. Ahmed, H ã è ne Perrier, David Coeurjolly, Victor Ostromoukhov, **Jianwei Guo**, Dongming Yan, Hui Huang, Oliver Deussen, Low-Discrepancy Blue Noise Sampling. *ACM Trans. on Graphics (SIGGRAPH Asia 2016, SCI)*, Vol. 35, No. 6, 2016.
6. Dong-ming Yan, **Jianwei Guo**, Xiaohong Jia, Xiaopeng Zhang, Peter Wonka. Blue-Noise Remeshing with Farthest Point Optimization, *Computer Graphics Forum (SCI)*, 33(5): 167-176, 2014.
7. Sen Zhang, **Jianwei Guo**, Hui Zhang, Xiaohong Jia, Dong-ming Yan, Jun-Hai Yong, Peter Wonka. Capacity Constrained Blue-Noise Sampling on Surfaces. *Computers & Graphics (SCI)*. 2015.
8. Weiliang Meng, **Jianwei Guo**, Xavier Bonaventura, Mateu Sbert, Xiaopeng Zhang. Shape exploration of 3D heterogeneous models based on cages. *Multimedia Tools and Applications (SCI)*, 1-22, 2016.
9. Dong-ming Yan, **Jianwei Guo**, Bin Wang, Xiaopeng Zhang, Peter Wonka. A Survey of Blue-Noise Sampling and Its Applications, *Journal of Computer Science and Technology (SCI)*, 30(4), 439-452, 2015.
10. 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 (SCI)*, 2013.

11. Weize Quan, **Jianwei Guo**, Dong-ming Yan, Xiaopeng Zhang. Analysing Surface Sampling Patterns using Pair Correlation Function. *Journal of Computational Visual Media*. 2016.
12. Lei Yi, Hongjun Li, **Jianwei Guo**, Oliver Deussen, Xiaopeng Zhang. Light-Guided Tree Modeling of Diverse Biomorphs, *Pacific Graphics (Short Papers)*, 2015.

Patents

1. **Jianwei Guo**, Dong-ming Yan, Weiliang Meng, Xiaopeng Zhang, Weiming Dong. An automatic disassembling method for assembly models. Patent for invention, Grant Number: CN103279621B.
2. Dong-ming Yan, **Jianwei Guo**, Xiaopeng Zhang. Remeshing method based on maximal Poisson-disk sampling. Patent for invention, Application Number: CN201410437581, Open Number: CN104240299A.
3. Dong-ming Yan, **Jianwei Guo**, Xiaopeng Zhang. Method for generating blue noise meshes on basis of farthest point optimization. Patent for invention, Application Number: CN201410283442.1, Open Number: CN104036552A.
4. Xiaopeng Zhang, Hongjun Li, **Jianwei Guo**, Mingrui Dai, Jia Liu. Method for rebuilding tree model based on point cloud and data driving. Patent for invention, Application Number: CN201410131203.4, Open Number: CN103871100A.
5. Dong-ming Yan, **Jianwei Guo**, Xiaopeng Zhang. Method for sampling Isosurfaces and generating high-quality triangular mesh. Patent for invention, Application Number: CN201410080539.2, Open Number: CN103839292A.

Awards

2014, 2016	Outstanding Student Award	University of Chinese Academy of Sciences
2016	Ru-wei Dai Second Prize Scholarship	Institute of Automation, Chinese Academy of Sciences
2015	Second Prize Scholarship	Institute of Automation, Chinese Academy of Sciences
2014	Honorable Mention Best Paper Award	Shape Modeling International and Computers & Graphics
2010	National Scholarship	Ministry of Education of the People's Republic of China
2008, 2009	National Encouragement Scholarship	Ministry of Education of the People's Republic of China
2008, 2010	First Prize Scholarship, Excellent student	Shandong University