

Shengfa Wang

Curriculum Vitae

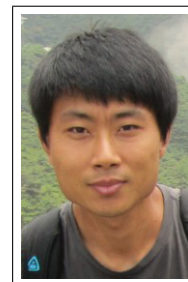
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"A journey of a thousand miles begins with a single step."—Lao Tzu

Work Experience

- 2013.01-Present School of Software Technology at Dalian University of Technology, **Lecturer**
- 2013.01-2014.12 Computer Science and Technology at Dalian University of Technology, **Postdoctor**

Education

- 2007.09-2012.10 **Computational Mathematics**, Dalian University of Technology, China, **Ph.D.**
- 2010.10-2012.03 **Computer Science**, Stony Brook University, USA, **Visiting Scholar**
- 2003.09-2007.07 **Information and Computational Science**, Dalian University of Technology, China, **B.S.**

Areas of Research Interest

- Computer Graphics
- Computer Aided Geometric Design
- 3D Printing and the Applications

Courses

- Object Oriented Method and C + + Program Design
- Visualization and visual analysis

Research Projects

- 2014.01-2016.12 "The research on the application of diffusion geometry to model feature analysis", **Youth NSFC**
- 2014.01-2015.12 "Diffusion Geometry Based Feature Representation and Analysis for Digital Geometry Models", **China Postdoctoral Science Foundation**
- 2014.01-2015.12 "Xinghai scholars talent plan" in DLUT

Selected Publications

- [1] Nannan Li, **Shengfa Wang**, Ming Zhong, Zhixun Su, Hong Qin. *Generalized Local-to-global Shape Feature Detection based on Graph Wavelets*. IEEE Transactions on Visualization and Computer Graphics. 2015, online

- [2] **Shengfa Wang**, Nannan Li, Shuai Li*, Zhongxuan Luo, Zhixun Su, Hong Qin. *Multi-scale Mesh Saliency based on Low-rank and Sparse Analysis in Feature Space*. Computer Aided Geometric Design. 2015,35-36,206-214.
- [3] **Shengfa Wang**, Yu Cai, Zhiling Yu, Junjie Cao, Zhixun Su. *Normal-controlled Coordinates Based Feature-preserving Mesh Editing*. Multimedia Tools and Applications. 2014, 71(2):607-622.
- [4] **Shengfa Wang**, Junjie Cao, Hui Wang, Baochang Han, Zhixun Su. *Primary Correspondences between Intrinsically Symmetrical Shapes*. Journal of Information and Computational Science. 2014, 11(9):2975 - 2982.
- [5] Shuai Li, Qinqing Zhao, **Shengfa Wang**, Aimin Hao, and Hong Qin. *Interactive deformation and cutting simulation directly using patient-specific volumetric images*. Computer Animation and Virtual Worlds. 2014, 25(2), 155-169.
- [6] **Shengfa Wang**, Tingbo Hou, Shuai Li, Zhixun Su, Hong Qin. *Anisotropic Elliptic PDEs for Feature Classification*. IEEE Transactions on Visualization and Computer Graphics. 2013, 19(10), 1606-1618.
- [7] **Shengfa Wang**, Tingbo Hou, Shuai Li, Zhixun Su, Hong Qin. *Hierarchical feature subspace for structure-preserving deformation*. Computer-Aided Design. 2013, 45(2), 545-550.
- [8] Riming Sun, **Shengfa Wang**, Junjie Cao, Bo Li, Zhixun Su, *An adapted parameterization for smooth geometry image*. CAD/Graphics. 2013,156-163.
- [9] **Shengfa Wang**, Yu Cai, Zhiling Yu, Junjie Cao, Zhixun Su. *Feature-Preserving Mesh Deformation Using Normal-Controlled Coordinates*. International Conference on Digital Home. 2012, 189 -194.
- [10] Shuai Li, Qinqing Zhao, **Shengfa Wang**, Aimin Hao, and Hong Qin. *Multi-scale, Multi-Level, Heterogeneous Features Extraction and Clustering of Volumetric Medical Images*. ICIP. 2013, 1418-1422.
- [11] Shuai Li, Qinqing Zhao, **Shengfa Wang**, Tingbo Hou, Aimin Hao, and Hong Qin. *A Novel Material-aware Feature Descriptor for Volumetric Image Registration in Diffusion Tensor Space*. European Conference on Computer Vision. 2012, 502-515.
- [12] **Shengfa Wang**, Tingbo Hou, Zhixun Su, Hong Qin. *Multi-scale anisotropic heat diffusion based on normal-driven shape representation*. The Visual Computer. 2011, 27, 429-439.
- [13] **Shengfa Wang**, Tingbo Hou, Zhixun Su, Hong Qin. *Diffusion Tensor Weighted Harmonic Fields for Feature Classification*. Pacific Graphics. 2011, 93-98.
- [14] Zhixun Su, **Shengfa Wang**, Chao Yu, Fengshan Liu, Xiquan Shi. *A Novel Laplacian Based Method for Mesh Deformation*. Journal of Information and Computational Science. 2010, 7(4), 877-883.

Academic Services

Academy

ACM Member

IEEE Member

CCF Member

Regular Reviewer

SCIENCE CHINA Information Sciences
International Journal of Image and Graphics
Neurocomputing