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EDUCATION

Bachelor, Software Engineering	GPA: 83/100	2014.9-present
School of Computer Science and Technology, Harbin Institute of Technology		

RESEARCH INTEREST

My current research focuses on geometric modeling and computer-aided design. And I am now working on computer-aided ship hull design with developable surfaces. I also have broad interests in 3D animation and virtual reality.

PUBLICATIONS

Zheng Y J, Bo P B. Quasi-developable Surface Construction Based on Boundary Curve and its Application in Ship Hull Design (in Chinese). Journal of Computer Aided Design & Computer Graphics (Accepted)
Piao D S, Zheng Y J, Bo P B. Volume Rendering with Adaptive Local Feature Enhancement (in Chinese). CSIAM Geometric Design and Computing of China, Yantai, 2017
Bo P B, Wang Z, Zhang C M, **Zheng Y J**. Developable Surface Reconstruction from Noisy Data with L_0 -norm Minimization (in Chinese). SCIENTIA SINICA Informationis, 2017, 47(4): 401-415

RESEARCH EXPERIENCE

Developable Surface Construction between Two Boundaries	2016.12-present
This research project aims to find a robust method which can construct a quasi-developable surface between two boundaries using several specific numerical optimization techniques. Our current techniques have been applied to ship hull design, which have been accepted by Journal of Computer Aided Design & Computer Graphics.	

Volume Rendering	2016.11-2017.5
<i>GDC 2017</i> Our work is an optimization of Volume Illustration which is a well-known method in volume rendering based on non-photorealistic rendering. We redefined the enhancement equation of opacity, which can make the enhancement of local feature clearer than existing approaches.	

Developable Surface Reconstruction from Noisy Data	2016.5-2016.11
<i>China CAD&CG 2016</i> We present a novel method for Developable Surface Reconstruction from Noisy Data. In this work, I implement an optimization approach to smooth the normal vector field of a given model via L_0 -norm minimization.	

PROFESSIONAL SKILLS

Programming Languages: C, C++, Java
Libraries and Tools: HLBFGS, OpenGL, OpenMesh, GeometricTools(Curve and Surface)

AWARDS

National Aspiration Scholarship, Ministry of Education, P.R.China	2016
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