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EDUCATION

Bachelor, Software Engineering	GPA:85/100	2014.9-present
School of Computer Science and Technology, Harbin Institute of Technology, Weihai		

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 computer graphics.

PUBLICATIONS

Zheng Y J, Bo P B. Quasi-developable Surface Construction Based on Boundary Curve and its Application in Ship Hull Design (in Chinese). J Comput-Aid Desig Comput Graph, 2018
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 L0-norm Minimization (in Chinese). Sci Sin Inform, 2017

RESEARCH EXPERIENCE

Developable Surface Construction between Two Boundaries	2016.12-present
The subject is aimed to find a robust method which can construct a quasi-developable surface between two boundaries using several specific numerical optimization techniques. The phased results have been applied in ship hull design, which have been accepted by J Comput-Aid Desig Comput Graph.	

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.	

Developable Surface Reconstruction from Noisy Data	2016.5-2016.11
<i>China CAD&CG 2016</i> We present an innovative method for Developable Surface Reconstruction from Noisy Data. In this work, I implement an optimization approach to smooth normal vector field of given model via L0-norm minimization.	

PROFESSIONAL SKILLS

Programming Languages: C, C++, Java

Libraries and Tools: HLBFGS, OpenGL, OpenMesh, GeometricTools(Curve and Surface)

AWARDS

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