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Language:

Chinese: Maternal
English: IETS 7.0/9.5

Computer skills:

•Programing Language: C/Python/C++, Matlab, Mathicmatica
•Working Software: Excel/PowerPoint/Word, PS, and AfterEffect
•Scientific Software: Abaqus, COMSOL

Proficient in using LaTeX and power user of LINUX

Hobby:

Jogging, Traveling, Photographing, Fitness, Guitar

Research Interests:

Phase field method, Finite Difference Method, Numerical analysis, Topology optimization

Qing Xia

EDUCATIONS

2019-present — Xi'an Jiao Tong University(XJTU), China
-Department of Applied Mathematics
-School of Mathematics and Statistics
-Master candidate

Sept 2015-Jun 2019 — Xi'an Jiao Tong University(XJTU), China
-Department of Applied Mathematics
-School of Mathematics and Statistics
-Bachelor Degree

PUBLICATIONS

3D printing

• Yibao Li, Qing Xia, Sungha Yoon, Chaeyoung Lee, Bingheng Lu, Junseok Kim, Simple and efficient volume merging method for triply periodic minimal structures, Computer Physics Communications, 264 (2021) 107956.

• Yibao Li, Qing Xia, Zhengyuan Shi, Bingheng Lu, Junseok Kim. A simple and efficient manufacturing design method for rapid prototyping with multiple printing sizes, Computer Aided Geometric Design, Submitted.

Image processing

•Yibao Li, Qing Xia, Sungha Yoon, Junseok Kim, A simple and efficient fingerprint image restoration method based on a phase-field model, Pattern Recognition, Submitted.

•Jing Ji, Suping Fang, Zhengyuan Shi, Qing Xia, Yibao Li, An efficient nonlinear polynomial color characterization method based on interrelations of color spaces, Color Research and Application, DOI: 10.1002/col.22563

Multi-physical fields coupled computation

• Qing Xia, Qian Yu, Yibao Li, A second-order accurate, unconditionally energy stable numerical scheme for binary fluid flows on arbitrary curved surfaces, Computer Methods in Applied Mechanics and Engineering, 384 (2021) 113987.

• Qing Xia, Junseok Kim, Yibao Li. Modeling and simulation of multicomponent immiscible flows based on a modified Cahn-Hilliard equation, International Communications in Heat and Mass Transfer, Submitted.

HONORS & SCHOLARSHIPS

⇒Oct 2014	France Excellence,Prize of Ambassador France
⇒Oct 2013	First price of Audi Green-Power Innovation Competition
⇒Dec 2012	ChenXin enterprise scholarship
⇒Dec 2012	Academic award of SJTU for 3 years
⇒Apr 2011	Excellent project for Social Internship of Shanghai