

Rui Xu

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G Google Scholar

G GitHub Profile

SUMMARY

I am a second-year master student at the Interdisciplinary Research Center (IRC) of Shandong University, under the supervision of **Prof. Changhe Tu** and **Prof. Shiqing Xin**. My research interest is computer graphics, geometry, and reconstruction. I'm actively seeking Ph.D. position starting in the Fall of 2024.

EDUCATION

- **Shandong University** 2021 - 2024 (Expected)
M.Eng in Computer Science Shandong, China
- **Shandong University** 2017 - 2021
B.Eng in Computer Science Shandong, China

PUBLICATIONS

- **Globally Consistent Normal Orientation for Point Clouds by Regularizing the Winding-Number Field**
Rui Xu, Zhiyang Dou, Ningna Wang, Shiqing Xin, Shuangmin Chen, Mingyan Jiang, Xiaohu Guo, Wenping Wang, Changhe Tu
– ACM Transactions on Graphics (SIGGRAPH 2023) [Project Page] [Code]
– ACM SIGGRAPH 2023 Technical Papers **Best Paper Award**
- **RFEPS: Reconstructing Feature-line Equipped Polygonal Surface**
Rui Xu, Zixiong Wang, Zhiyang Dou, Chen Zong, Shiqing Xin, Mingyan Jiang, Tao Ju, Changhe Tu
– ACM Transactions on Graphics (SIGGRAPH Asia 2022) [Project Page] [Code]
- **SurfaceVoronoi: Efficiently Computing Voronoi Diagrams over Mesh Surfaces with Arbitrary Distance Solvers**
Shiqing Xin, Pengfei Wang, Rui Xu, Dongming Yan, Shuangmin Chen, Wenping Wang, Caiming Zhang, Changhe Tu*
– ACM Transactions on Graphics (SIGGRAPH Asia 2022) [Code]
- **QuickCSGModeling: Quick CSG Operations Based on Fusing Signed Distance Fields for VR Modeling**
Shuangmin Chen, Rui Xu, Jian Xu, Shiqing Xin, Changhe Tu, Chenglei Yang, Lin Lu*
– ACM Transactions on Multimedia Computing Communications and Applications (ToMM 2023)
- **Mesh-MLP: An all-MLP Architecture for Mesh Classification and Semantic Segmentation**
Qiuqie Dong, Rui Xu, Xiaoran Gong, Zixiong Wang, Shuangmin Chen, Shiqing Xin, Changhe Tu
– arXiv 2023
- **Coverage Axis: Inner Point Selection for 3D Shape Skeletonization**
Zhiyang Dou, Cheng Lin, Rui Xu, Lei Yang, Shiqing Xin, Taku Komura, Wenping Wang
– Computer Graphics Forum (Eurographics 2022) [Project Page] [Code]
- **EasyVRModeling: Easily Create 3D Models by an Immersive VR System**
Zhiying Fu, Rui Xu, Shiqing Xin, Shuangmin Chen, Changhe Tu, Chenglei Yang, Lin Lu
– ACM SIGGRAPH Symposium on Interactive 3D Graphics and Games (i3D 2022)
- **Top-Down Shape Abstraction Based on Greedy Pole Selection**
Zhiyang Dou, Shiqing Xin, Rui Xu, Jian Xu, Yuanfeng Zhou, Shuangmin Chen, Wenping Wang, Xiuyang Zhao, Changhe Tu*
– IEEE Transactions on Visualization and Computer Graphics (TVCG 2020)

EXPERIENCE

- **Tencent Intern** Sep 2022 - Dec 2022
Research in Geometry Modeling. Shenzhen, China
- **Alibaba Intern** May 2020 - Sep 2020
Algorithm Engineer for Digital Twins with Unreal Development. Hangzhou, China

TECHNICAL SKILLS AND INTERESTS

Languages: Chinese (Native), English (Fluent)

Programming Skills: C/C++, Matlab, Latex, Python

Hobbies: Table tennis and badminton