Liu Wei

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EDUCATION

Shandong University   **Qingdao, Shandong, China**
Computer Science and Technology, rank 3/14, GPA 3.82/5.0, 88.18/100   *2021.9 - cur*

TECHNICAL SKILLS

Programming Languages: C++, C#, Python, Javascript
Libraries and Tools: Unity, Blender, PyTorch, libigl, CGAL
English Level: CET4 586, CET6 564

EXPERIENCE

Undergraduate Research Assistant at IRC
Shandong University, Shandong, China   *2022.10 - cur*
- During my time in IRC, I have been supervised by Prof. Shiqing Xin on computer graphics and geometry processing. After a year of study and discussion, I currently have a co-first author (first place) paper on CAGD (first published in GMP2024).

Shandong University Taishan College
Shandong University, Shandong, China   *2021.9 - cur*
- I took the entrance exam for Taishan College and passed both the written test and interview, becoming a student in the computer orientation program at Taishan College. Through small-class teaching, I have gained a solid professional foundation.

PROJECTS

- **Academic Training in Taishan College**, In the one-year scientific research training, I experienced thesis proposal, middle stage and conclusion, and was finally rated as an excellent project
- **PBD based bone animation in Unity**. By self-motivated learning, I have learned about the commonly used PBD simulation methods in games and implemented it in Unity by controlling bone orientation through spring forces and constraints. Collision is handled at the end of each simulation step to minimize cliping.

PUBLICATIONS

- **Towards Geodesic Ridge Curve for Region-wise Linear Representation of Geodesic Distance Field**
  Computer Aided Geometric Design, CCF B, co-first author (first place)
  The work proposed a novel approach to locate geodesic ridge structure on discrete mesh surface with two steps. First, rough geodesic ridges are obtained by Dijkstra algorithm, then the model is cut along the rough geodesic ridges and extended outward to get a new model, any existing geodesic distance algorithm can be executed on the new model to get a new distance field, the new distance field is utilized compute the exact geodesic ridges and a optimized distance field on the original mesh. link

AWARDS

- GMP Best Paper Award, 2024
- Third-class Academic Scholarship, 2023
- Second-class Academic Scholarship, 2022