CHENBO JIANG

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EDUCATION

Nanjing University of Science and Technology Zijin College *September 2019 - June 2023*
B.E., Computer Science and Technology
GPA: 89.9/100 (Rank: 1/114)

PUBLICATIONS

[1] NeuralSlice: Neural 3D Triangle Mesh Reconstruction via Slicing 4D Tetrahedral Meshes.
Chenbo Jiang, Jie Yang, Shwai He, Yu-Kun Lai and Lin Gao.
Proceedings of International Conference on Machine Learning, 2023 (ICML 2023).
[2] SD-Conv: Towards the Efficiency of Dynamic Convolution.
Shwai He, **Chenbo Jiang**, Daize Dong and Liang Ding.
IEEE/CVF Winter Conference on Applications of Computer Vision, 2023 (WACV 2023).

MAJOR RESEARCH PROJECTS

Language-guided Spatial-aware Radiance Field Editing
August 2023 - Present

· Explore methods for achieving spatial-aware editing in 3D scenes, such as rotation and translation, using natural language descriptions.
· Currently researching language-guided NeRF Editing methods for spatial-aware editing.
· Work in Progress.

NeuralSlice: Neural 3D Triangle Mesh Reconstruction via Slicing 4D Tetrahedral Meshes
February 2021 - January 2023

· TL;DR: NeuralSlice is a novel approach to representing 3D shapes with flexible topology in a pure explicit fashion, which represents a 3D shape as the intersection of a 4D deformable tetrahedral mesh and a learnable 4D hyperplane.
· A novel network architecture that incorporates NeuralSlice to learn the deformable 4D tetrahedral mesh and 4D hyperplane for 3D shape reconstruction, which ensures the high fidelity of the obtained meshes with regular triangulation by introducing Lipschitz normalization and Laplacian regularization;
· Experiments demonstrate that our 3D reconstruction method accurately reconstructs 3D shapes of diverse topology, outperforming existing explicit methods in accuracy, and much faster than implicit methods. Furthermore, NeuralSlice can represent different 3D shapes and topologies in one 4D tetrahedral mesh.

EXPERIENCE

Research Intern July 2022 - Present
Advisor: Associate Professor Lin Gao
Institute of Computing Technology, Chinese Academy of Sciences

Working on research projects in the field of Geometry Learning.

AWARDS

Special scholarship *Nanjing University of Science and Technology Zijin College* *January 2022*
Ranked 1/114 in School of Computer Science.

First-class scholarship×3 *Nanjing University of Science and Technology Zijin College* *2020-2021*
Ranked in the TOP 5% in School of Computer Science.