

Chenyu Tian

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EDUCATION

2022/09 – Now **China University of Geosciences** **Combined Master's-PhD**

Grades 88.2/100 (Top15%), Mechanical Engineering, School of Mechanical Engineering and Electronic Information

2018/09 – 2022/06 **China University of Geosciences** **Bachelor**

GPA 3.37/5.0 (Top15%), Mechanical Engineering, School of Mechanical Engineering and Electronic Information

RESEARCH INTEREST

Vision-based 3D Reconstruction; Neural Radiance Fields; 3D Gaussian Splatting; Computer Vision

PAPERS

2022/09 – NOW **3D Reconstruction/Computer Vision**

1. **C. Tian**, W. Hu, H. Ding, and L. Wen, "NeRF-THO: Neural Radiance Fields for Transparent and Highlighted Objects," *IEEE Transactions on Industrial Informatics*, vol. 21, no. 11, pp. 9115-9125, Nov. 2025, doi: 10.1109/TII.2025.3594137 (SCI, JCR=Q1, IF=9.9)
2. **C. Tian**; W. Hu; H. Ding; J. Leng; L. Wen, "Surface reconstruction of glass bottles using neural implicit representations for manufacturing system", *Journal of Intelligent Manufacturing*, Aug. 2025, doi: 10.1007/s10845-025-02668-4. (SCI, JCR=Q1, IF=7.4)
3. **C. Tian**, W. Hu, Z. Zhang, L. Wen and H. Ding, "Geometry-aware Gaussian Splatting of Transparent object Reconstruction in manufacturing system," *Engineering Applications of Artificial Intelligence, Major Revision*. (SCI, JCR=Q1, IF=8)
4. W. Hu, **C. Tian**, L. Wen, and H. Ding, "TD-NeRF: Transfer Learning and Diffusion Regulation-Based NeRF for Scene Perception," *IEEE Transactions on Instrumentation and Measurement*, vol. 74, pp. 1–12, 2025. (SCI, JCR=Q1, IF=5.9)
5. Q. Wu, H. Li, **C. Tian**, L. Wen, and X. Li, "AEKD: Unsupervised auto-encoder knowledge distillation for industrial anomaly detection," *Journal of Manufacturing Systems*, vol. 73, pp. 159–169, Apr. 2024. (SCI, JCR=Q1, IF=14.2)

PROJECTS

2022/09 – 2024/09 **School-enterprise Cooperation Project** **Backbone**

Key Technology Research on the Production of Daily Use Glass Bottles: Visual Inspection of Glass Bottles

2023/12 – 2024/12 **China University of Geosciences Laboratory Open Foundation** **Leader**

Configuration Design and Synthesis for Power-split Hybrid Transmission based on Non-fraction Topologies

2024/01 - 2026/12 **National Natural Science Foundation of China No. 62303432** **Participant**

Security Coordination Control for Multi-cluster Swarm Networks with Memory-based Compound Event-triggered Mechanisms: Algorithm design, simulation and experiments

2020/01 - 2024/12 **National Natural Science Foundation of China No. 51975544** **Participant**

Synthesis Theory of Automatic Topology of Planetary Gear Trains and Automatic Innovative Design of Automatic Transmission Mechanism: Topology synthesis, optimization and mechanical design