Chih-Hai Su

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Education

- **National Yang Ming Chiao Tung University** — Taiwan
  Master of Science in Computer Science; GPA: 3.82/4.00, or 3.94/4.30 — *Sep 2021 – Present*

Experience

- **NYCU Computational Photography Lab** — Hsinchu, Taiwan
  Undergraduate Researcher — *Feb 2023 – Present*
  - **Publication**: "BoostMVSNeRFs" in the Proceedings of SIGGRAPH 2024.
  - **NeRF**: Utilized NeRF (Neural Radiance Fields) to model scene geometry and appearance in a unified neural network, enabling high-fidelity 3D reconstruction and novel view synthesis.
- **NYCU Computational Photography Lab** — Hsinchu, Taiwan
  System Administrator — *May 2023 – Present*
  - **System Management**: Configured and maintained LDAP services for centralized user authentication and authorization. Managed Network Attached Storage (NAS) solutions to provide centralized storage resources.
  - **Network Management**: Configured NFS exports and mounts to facilitate seamless file access and collaboration among users and systems.

Publications

- **BoostMVSNeRFs: Boosting MVS-based NeRFs to Generalizable View Synthesis in Large-scale Scenes**
  Chih-Hai Su, Chih-Yao Hu, Shr-Ruei Tsai, Jie-Ying Lee, Chin-Yang Lin, Yu-Lun Liu
  Proceedings of SIGGRAPH 2024
  A fast, generalizable NeRF that achieves SOTA quality on large indoor and outdoor scenes.

Awards & Achievements

- **Special Distinction Award** Department of Computer Science Bachelor's Program Project Competition, 112th Academic Year, 1st Semester, National Yang Ming Chiao Tung University
  The project was extended for "BoostMVSNeRFs".
- **2023 ICPC Asia Taoyuan Regional Bronze Award**
  Demonstrated well problem-solving skills, algorithmic proficiency, and teamwork in a competitive programming environment.
- **2023 AI Workshop Best Project Award** Department of Computer Science and Engineering, National Yang Ming Chiao Tung University.
  Project: "Moving Object Segmentation from Large-Motion Frames."

Projects

- **Moving Object Segmentation from Large-Motion Frames (Python, PyTorch)**: Developed an unsupervised method for segmenting moving objects in challenging video frames with large motions.
- **Implemented Remote Procedure Call service (Docker, C++)**: Utilized Docker networking features such as bridge networks, Docker Compose to establish connectivity and manage network traffic, and C++ language to implement RPC endpoints.

Programming Skills

- **Languages**: C/C++, C#, Python, Bash, MATLAB
- **Technologies**: Git, Docker, PyTorch, CMake, Anaconda, OpenCV, AWS