Dr. Hang Zhou

Contact Information

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Research Interests

The interdisciplinary field of artificial intelligence and scene understanding: Machine Learning, Deep Learning, Computer Vision, Graphics, Generative Models, Multimedia Security

Employment

Postdoctoral Fellow 2024 – Now
Collaborator: Prof. Li Cheng
Department of Electrical and Computer Engineering
Faculty of Engineering, The University of Alberta, Canada

Postdoctoral Fellow 2021 – 2023
Collaborator: Prof. Hao (Richard) Zhang
School of Computer Science
Faculty of Applied Sciences, Simon Fraser University, Canada

Research Intern 2017
Machine Learning Group
Microsoft Research Asia, China

Qualifications

Doctor of Engineering in Machine Learning 2020
The University of Science and Technology of China (USTC), Hefei, China

Bachelor of Engineering 2015
Shanghai University (SHU), Shanghai, China

Publication List

Conference Publications

11. **Hang Zhou**, et al. BOOTPLACE: Bootstrapped Object Placement with Detection Transformers, *CVPR 2025*.
10. Weitao Feng, **Hang Zhou**, et al. CASAGPT: Cuboid Arrangement and Scene Assembly for Interior Design, *CVPR 2025*.
9. Qi Sun, **Hang Zhou**, et al. FOREST2SEQ: Revitalizing Order Prior for Sequential Indoor Scene Synthesis, *ECCV, 2024*.
8. Zhiqin Chen, Qimin Chen, **Hang Zhou**, et al. DAE-Net: Deforming Auto-Encoder for Fine-grained Shape Co-segmentation, *ACM SIGGRAPH, 2024*.
7. Kui Zhang, **Hang Zhou**, et al. Transferable Facial Privacy Protection against Blind Face Restoration via Domain-Consistent Adversarial Obfuscation, *ICML, 2024*.
6. Qimin Chen, Zhiqin Chen, **Hang Zhou**, et al. ShaDDR: Interactive Example-based Geometry and Texture Generation via 3D Shape Detailization and Differentiable Rendering, *ACM SIGGRAPH Asia, 2023*.
5. Zehua Ma, **Hang Zhou**, et al. AnisoTag: 3D Printed Tag on 2D Surface via Reflection Anisotropy, *CHI, 2023*.

4. Qidong Huang, Xiaoyi Dong, Dongdong Chen, **Hang Zhou**, et al. Shape-invariant 3D Adversarial Point Clouds, *CVPR, 2022*.
3. **Hang Zhou**, et al. LG-GAN: Label Guided Adversarial Network for Flexible Targeted Attack of Point Cloud-based Deep Networks, *CVPR, 2020*.
2. Xiaoyi Dong, Dongdong Chen, **Hang Zhou**, et al. Self-robust 3D Point Recognition via Gather-vector Guidance, *CVPR, 2020*.
1. **Hang Zhou**, et al. DUP-Net: Denoiser and Upsampler Network for 3D Adversarial Point Clouds Defense, *ICCV, 2019*.

Journal Publications

6. Qidong Huang, Xiaoyi Dong, Dongdong Chen, **Hang Zhou**, et al. PointCAT: Contrastive Adversarial Training for Robust Point Cloud Recognition, *IEEE Trans. on Image Processing (TIP), Vol. 33, pp. 2183–2196, 2024*.
5. **Hang Zhou**, et al. SAC-GAN: Structure-aware Image Composition, *IEEE Trans. on Visualization and Computer Graphics (TVCG)*, Vol. 30, No. 7, pp. 3151–3165, 2024.
4. Qichao Ying, **Hang Zhou**, et al. Learning to Immunize Images for Tamper Localization and Self-recovery, *IEEE Trans. on Pattern Analysis and Machine Intelligence (PAMI)*, Vol. 45, No. 11, pp. 13814–13830, 2023.
3. **Hang Zhou**, et al. Three-Dimensional Mesh Steganography and Steganalysis: A Review, *IEEE Trans. on Visualization and Computer Graphics (TVCG)*, Vol. 28, No. 12, pp. 5006–5025, 2021.
2. **Hang Zhou**, et al. Feature-Preserving Tensor Voting Model for Mesh Steganalysis, *IEEE Trans. on Visualization and Computer Graphics (TVCG)*, Vol. 27, No. 1, pp. 57–67, 2019.
1. Ruiqi Jiang, **Hang Zhou**, et al. Reversible Data Hiding in Encrypted Three-Dimensional Mesh Models, *IEEE Trans. on Multimedia (TMM)*, Vol. 20, No. 1, pp. 55–67, 2017.