Xin Lin

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Education

Sichuan University   **Chengdu, CHINA**
Electronics and Information Engineering 3/111   2021–2025

Publications

1. **HQGS: High-Quality Novel View Synthesis with Gaussian Splatting in Degraded scenes** [paper]
   Xin Lin, Shi Luo, Xiaojun Shan, Xiaoyu Zhou, Chao Ren, Lu Qi, Ming-Hsuan Yang and Nuno Vasconcelos.
   ICLR 25.

2. **RobuRCDet: Enhancing Robustness of Radar-Camera Fusion in Bird's Eye View for 3D Object Detection** [paper]
   Jingtong Yue*, Zhiwei Lin*, **Xin Lin***, Xiaoyu Zhou, Xiangtai Li, Lu Qi, Yongtao Wang and Ming-Hsuan Yang.
   ICLR 25 (equal contribution)*

3. **Unsupervised Image Denoising in Real-World Scenarios via Self-Collaboration Parallel Generative Adversarial Branches** [paper]
   Xin Lin, Xiao Liu, Jie Huang, Chao Ren and Yinjie Lei.
   ICCV 2023.

4. **Dual Degradation Representation for Joint Deraining and Low-Light Enhancement in the Dark** [paper]
   Xin Lin, Jingtong Yue, Sixian Ding, Chao Ren, Lu Qi and Ming-Hsuan Yang.
   TCSVT.

5. **Dual-Representation Interaction Driven Image Quality Assessment with Restoration Assistance** [paper]
   Jingtong Yue, **Xin Lin**, Zijiu Yang and Chao Ren.
   WACV 2025.

6. **Restore Anything with Masks: Leveraging Mask Image Modeling for Blind All-in-One Image Restoration** [paper]
   Chujie Qin, Ruiqi Wu, Zikun Liu, **Xin Lin**, Chun-Le Guo, Hyun Hee Park and Chongyi Li.
   ECCV 2024.

Submitted Papers

1. **Re-boosting Self-Collaboration Parallel Prompt GAN for Unsupervised Image Restoration** [paper]
   Xin Lin*, Yuyan Zhou*, Jingtong Yue, Chao Ren, Kelvin C.K. Chan, Lu Qi and Ming-Hsuan Yang.
   Submitted to TPAMI.

2. **UMC: Unified Resilient Controller for Legged Robots with Joint Malfunctions**
   Yu Qiu, **Xin Lin**, Jingbo Wang, Xiangtai Li, Lu Qi, and Ming-Hsuan Yang.
   Submitted to ICML 25.

3. **Multi-task Image Restoration Guided by Robust DINO Features** [paper]
   Xin Lin*, Jingtong Yue, Kelvin C.K. Chan, Lu Qi, Chao Ren, Jinshan Pan, and Ming-Hsuan Yang.
   arXiv.

Experience

1. University of California, San Diego   **Advisor: Prof. Nuno Vasconcelos**
Research Intern   July 2024–now
1. University of California, Merced   **Advisor: Prof. Ming-Hsuan Yang**
Research Intern   April 2023–now
2. Sichuan University   **Advisor: Prof. Chao Ren**
Research Intern   March 2022–June 2023

Professional Service

Reviewer
– ICML 25, ICLR 25, NeurIPS 24, ECCV 24, ACM MM 24,23, CVPRW 23, IJCV, Information Fusion

Awards

SenseTime Scholarship; 25 Talented undergraduates in China.

National Scholarship; (Top 0.2% nationwide, highest scholarship in China).

Top 100 Students in Sichuan University; (100/60,000+).

Chinese Mathematics Competitions first prize; (Top 0.08% in Sichuan province).