

PUBLICATION LIST

1. DexHandDiff: Interaction-aware Diffusion Planning for Adaptive Dexterous Manipulation.
Zhixuan Liang, Yao Mu, Yixiao Wang, Tianxing Chen, Wenqi Shao, Wei Zhan, Masayoshi Tomizuka, Ping Luo, Mingyu Ding.
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) 2025.
2. G3Flow: Generative 3D Semantic Flow for Pose-aware and Generalizable Object Manipulation.
Zhixuan Liang*, Tianxing Chen*, Yao Mu*, Zanxin Chen, Shijia Peng, Qiangyu Chen, Mingkun Xu, Ruizhen Hu, Hongyuan Zhang, Ping Luo.
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) 2025.
3. SkillDiffuser: Interpretable Hierarchical Planning via Skill Abstractions in Diffusion-Based Task Execution.
Zhixuan Liang, Yao Mu, Hengbo Ma, Masayoshi Tomizuka, Mingyu Ding, Ping Luo.
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) 2024.
4. AdaptDiffuser: Diffusion Models as Adaptive Self-evolving Planners.
Zhixuan Liang, Yao Mu, Mingyu Ding, Fei Ni, Masayoshi Tomizuka, Ping Luo.
International Conference on Machine Learning (ICML). PMLR, 2023. **(Oral)**
5. MetaDiffuser: Diffusion Model as Conditional Planner for Offline Meta-RL.
Fei Ni, Jianye Hao, Yao Mu, Yifu Yuan, Yan Zheng, Bin Wang, **Zhixuan Liang**.
International Conference on Machine Learning (ICML). PMLR, 2023.
6. Plot2Code: A Comprehensive Benchmark for Evaluating Multi-modal Large Language Models in Code Generation from Scientific Plots.
Chengyue Wu, **Zhixuan Liang**, Yixiao Ge, Qiushan Guo, Zeyu Lu, Jiahao Wang, Ying Shan, Ping Luo.
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7. MeanAP-Guided Reinforced Active Learning for Object Detection.
Zhixuan Liang, Xingyu Zeng, Rui Zhao and Ping Luo.
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8. Longitudinal Registration of Knee MRI Based on Femoral and Tibial Alignment.
Zhixuan Liang, Yin Guo and Chun Yuan.
International Society for Magnetic Resonance in Medicine Annual Meeting (ISMRM) 2021.
9. RoboTwin: Dual-Arm Robot Benchmark with Generative Digital Twins.
Yao Mu, Tianxing Chen, Zanxin Chen, Shijia Peng, Zhiqian Lan, Zeyu Gao, **Zhixuan Liang**, Qiaojun Yu, Yude Zou, Mingkun Xu, Lunkai Lin, Zhiqiang Xie, Mingyu Ding, Ping Luo.
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10. RoboCodeX: Multimodal Code Generation for Robotic Behavior Synthesis.
Yao Mu, Junting Chen, Qinglong Zhang, Shoufa Chen, Qiaojun Yu, Chongjian Ge, Runjian Chen, **Zhixuan Liang**, Mengkang Hu, Chaofan Tao, Peize Sun, Haibao Yu, Chao Yang, Wenqi Shao, Wenhai Wang, Jifeng Dai, Yu Qiao, Mingyu Ding, Ping Luo.
International Conference on Machine Learning (ICML). PMLR, 2024.
11. RoboScript: Code Generation for Free-Form Manipulation Tasks across Real and Simulation.
Junting Chen, Yao Mu, Qiaojun Yu, Tianming Wei, Silang Wu, Zhecheng Yuan, **Zhixuan Liang**, Chao Yang, Kaipeng Zhang, Wenqi Shao, Yu Qiao, Huazhe Xu, Mingyu Ding, Ping Luo.
Technical Report, 2024.