Xi WANG

CONTACT INFORMATION	Team VISTA, LIX, Ecole Polytechnique xi.wang@inria.fr / xi.wang@lix.polytec 91120 Palaiseau, France	chnique.fr Bio Page
EDUCATION	Ph.D., Computer Science, Univ. of Rennes I, Inria/Irisa, France Supervisors: Prof. Eric Marchand, Prof. Marc Christie Thesis: Robustness of vSLAM techniques to light changing conditions	18–2022
	 M.Sc., Electronics, Univ. of Paris-Saclay/École Supérieure d'Électricité, France Major: Automatic, Signal and Image Processing 	15–2016
	DiplIng., Electrics and Electronics, Univ. of Paris-Sud, France Engineering School: Polytech Paris-Sud	13–2016
	B.Eng., Electronics, Xidian Univ., China Major: Electronical Information: Antenna and microwave	10–2014
RESEARCH INTERESTS	vSLAM, 3D Reconstruction, Computational Cinematography, NeRF, Generative Models, A	nimation
Professional Experience	Postdoctoral Researcher, VISTA, LIX, Ecole Polytechnique, Palaiseau, France 20 Topics: Neural Radiance Field (NeRF); Generative Model; Computational Cinemator Supervised by: Prof. Vicky Kalogeiton	23–now ography.
	Postdoctoral Researcher, Inria/IRISA, Univ. Rennes 1, Rennes, France Topics: Neural Radiance Field (NeRF); virtual camera control; human motion. Participated in EU H2020 Project: Invictus	22-2023
	Research Internship, Beijing Film Academy, Peking Univ., Lab AICFVE, China Collaborators: Dr. Bin Wang, Prof. Baoquan Chen and Hongda Jiang Topics: Deep neural network driven animation and virtual camera control	19–2021
	Research Engineer Internship, Company Solidanim, France Topics: Augmented reality, optic calibration and on-set Previs system Created optics calibration, hand-eye calibration, trajectory filtering, IMU sync toolb	19-2020 oox
	Teaching Assistant, Univ. of Rennes I, France Courses: Image Processing (spring 19, spring 20), Augmented Reality (fall 19, fall 20)	19-2020 0)
	Research Engineer, Inria Rennes/IRISA, France Topics: vSLAM robustness under light changing condition Prepared for Ph.D candidacy in the team	17-2018
Honors and Awards	ACM Motion in Games Best Paper Award (Non-Student Category), 2023 2nd Prize of PhD Thesis Foundation Rennes 1, 2022 IROS RoboCup Best Paper Award Finalist, 2020	

TEACHING EXPERIENCE

INF634 - Computer Vision (Diffusion Model Part), 2024

MAP/INF630 - Case Studies in Artificial Intelligence and Visual Computing, 2023–2024

Image Processing, Univ. of Rennes I, France, 2019–2020

Augmented Reality, Univ. of Rennes I, France, 2019–2020

ACADEMIC SERVICES

Review for venues: RA-L, TVCG, ACCV, ICCV, ECCV, CVPR ICIP, ICRA, IROS

INVITED TALKS

Invited Talks on "Generative and Discriminative: a Co-Evolving System", Mar 2024, seminar GTTI of lab Borelli at ENS Saclay, Paris, France

Invited Talks on "Computer vision and Computational Cinematography", Nov 2023, seminar Softskills of DataAI IP Paris, Paris, France

Invited Talks on "An Odyssey to Computational Cinematography", June 2023, Dell Tech Generations, Shanghai, China

Invited Talks on "From SLAM Robustness to Computational Cinematography", April 2023, LIX, École Polytechnique, Palaiseau, France

PUBLICATIONS

- 11. Hongda, J., Wang, X., Christie, M., Liu, L., Chen, C., Cinematographic Camera Diffusion Model, Computer Graphics Forum (Eurographics), 2024
- 10. Bourel, F., Wang, X., Teng, E., Ortenzi, V., Myhill, A., Christie, M., Real-time Computational Cinematographic Editing for Broadcasting of Volumetric-captured events: an Application to Ultimate Fighting, Proceedings of the 16th ACM SIGGRAPH Conf. on Motion, Interaction and Games (MIG), 2023, Best Paper Award
- 9. Courant, R., Wang, X., Christie, M., Kalogeiton, V., BluNF: Blueprint Neural Field, Proceedings of the IEEE/CVF Intl. Conf. on Computer Vision (ICCV) Workshop, 2023
- 8. Wang, X., Courant, R., Shi, J., Marchand, E., Christie, M. JAWS: Just A Wild Shot for Cinematic Transfer in Neural Radiance Fields, Proceedings of the IEEE/CVF Conf. on Computer Vision and Pattern Recognition (CVPR), 2023
- 7. Wang, X., Christie, M., Marchand, E. Binary Graph Descriptor for Robust Relocalization on Heterogeneous Data, IEEE Robotics and Automation Letters (RA-L), 2022
- 6. Jiang, H.*, Christie, M., Wang, X., Liu, L., Wang, B., Chen, B. Camera Keyframing with Style and Control, ACM Transactions on Graphics (Proceedings of SIGGRAPH ASIA) 2021
- 5. Wang, X., Christie, M., Marchand, E. TT-SLAM: Dense Monocular SLAM for Planar Environments, IEEE Intl. Conf. on Robotics and Automation (ICRA) 2021
- 4. Wang, X., Christie, M., Marchand, E. Relative Pose Estimation and Planar Reconstruction via Superpixel-Driven Multiple Homographies, IEEE/RSJ Intl. Conf. on Intelligent Robot Systems (IROS) 2020, RoboCup Best Paper Award Finalist
- 3. Jiang, H.*, Wang, B.*, Wang, X., Christie, M., Chen, B. Example-driven virtual cinematography by learning camera behaviors, ACM Transactions on Graphics (Proceedings of SIGGRAPH) 2020
- 2. Wang, X., Christie, M., Marchand, E. Optimized Contrast Enhancements to Improve Robustness of Visual Tracking in a SLAM Relocalisation Context, Proceedings of IEEE/RSJ Intl. Conf. on Intelligent Robot Systems (IROS) 2018
- Wang, X., Christie, M., Marchand, E. Multiple layers of contrasted images for robust featurebased visual tracking, Proceedings of IEEE Intl. Conf. on Image Processing (ICIP) 2018