

Jiangliu Wang

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I am currently a Postdoctoral Researcher in the CUHK T Stone Robotics Institute at the Chinese University of Hong Kong (CUHK). My research interests include self-supervised representation learning, video understanding, multi-modal learning, and related applications on robotics.

Education

The Chinese University of Hong Kong Ph.D. in Mechanical and Automation Engineering Supported by Hong Kong PhD Fellowship Scheme (HKPFS) Advisor: Yun-hui Liu	2015 - 2020
Nanjing University B.Eng. in Control and Systems Engineering Advisor: Wei Li	2011 - 2015

Publications

1. ————. Research on self-supervised audio-visual representation learning.
Jiangliu Wang, Jianbo Jiao, Haoang Li, Di Kang, and Yun-hui Liu
Submitted to Neural Information Processing Systems (NeurIPS). 2021.
2. Self-supervised Video Representation Learning by Uncovering Spatio-temporal Statistics.
Jiangliu Wang*, Jianbo Jiao*, Linchao Bao, Shengfeng He, Wei Liu, and Yun-hui Liu.
Transactions on Pattern Analysis and Machine Intelligence (T-PAMI). 2021.
3. Self-Supervised Video Representation Learning by Pace Prediction.
Jiangliu Wang, Jianbo Jiao, and Yun-hui Liu
European Conference on Computer Vision (ECCV). 2020.
4. Contrastive Learning of Video Representations with Temporally Adversarial Examples.
Yibing Song, Tian Pan, Tianyu Yang, **Jiangliu Wang**, Chongjian Ge, Wenhao Jiang, and Wei Liu
Submitted to Transactions on Pattern Analysis and Machine Intelligence (T-PAMI).
5. Self-supervised Spatio-temporal Representation Learning for Videos by Predicting Motion and Appearance statistics.
Jiangliu Wang, Jianbo Jiao, Linchao Bao, Shengfeng He, Yun-hui Liu and Wei Liu.
Computer Vision and Pattern Recognition (CVPR). 2019.
6. View-invariant human action recognition based on a 3d bio-constrained skeleton model.
Qiang Nie, **Jiangliu Wang**, Xin Wang, and Yun-hui Liu.
Transactions on Image Processing (TIP). 2019
7. Kinematics Features for 3D Action Recognition Using Two-Stream CNN.
Jiangliu Wang and Yunhui-Liu.
World Congress on Intelligent Control and Automation (WCICA). 2018.
8. Motion patterns and phase-transition of a defender–intruder problem and optimal interception strategy of the defender.
Jiangliu Wang and Wei Li.
Communications in Nonlinear Science and Numerical Simulation. 2015.
Tier 1 journal in applied mathematics.

Patent

1. Image coding method, action recognition method, and computer device.
Jiangliu Wang, Kebin Yuan, and Yun-hui Liu.
Patent WO2019120108A1.

Work Experience and Internships

Postdoctoral Researcher CUHK T Stone Robotics Institute Chinese University of Hong Kong (CUHK) Work on self-supervised representation learning Work on fine-grained video understanding for robotics	Oct. 2020 - Present
Research Intern at Tencent AI Lab Computer Vision Group, Tencent, Shenzhen Mentor: Linchao Bao and Wei Liu Worked on self-supervised video representation learning	May 2018 - May 2019
Research Assistant at CUHK Worked on video understanding and its applications on robotics Collaborated with <i>HUAWEI Noah's Ark Lab</i> on children caring robot Collaborated with <i>KOKORO Co., Ltd. Japan</i> on humanoid robot	July 2015 - Sept. 2020
Research Assistant at Nanjing University Department of Control and Systems Engineering Advisor: Wei Li Worked on defense-intrusion interaction optimization problem	Oct. 2013 - July 2014

Selected Awards

Hong Kong PhD Fellowship Scheme (HKPFS)	2015 - 2019
Excellent Undergraduate Student of NJU	2015
First-class Scholarship for Outstanding Students of NJU	2012-2014

Academic Services

Conference Reviewer: CVPR 2021, ICCV 2021, ICML 2021 Workshop on SSL, NeurIPS 2020 Workshop on SSL, ICRA 2020, IROS 2019.
Journal Reviewer: IEEE Transactions on Neural Networks and Learning Systems (TNNLS), IEEE Robotics and Automation Magazine (RAM).