Hanbin Hong

Department of Computer Science and Engineering,
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Education

Ph.D. Student, University of Connecticut Storrs, Connecticut
Department of Computer Science and Engineering September 2022 – Present
Area: Computer Science

Ph.D. Student, Illinois Institute of Technology Chicago, Illinois
Department of Computer Science January 2021 – May 2022
Area: Computer Science

Research Internship, Rochester Institute of Technology Rochester, New York
Golisano College of Computing and Information Sciences September 2019 – December 2020
Area: Computer Vision

Graduate School, Xi'an Jiaotong University Xi'an, China
School of Economics and Finance September 2018 – July 2019
Major: Financial Engineering

Xi'an Jiaotong University Xi'an, China
Qian Xuesen School September 2014 – July 2018
Major: Honor Science Program (Physics)

Publication

Hong, Hanbin, and Yuan Hong. "Certified Adversarial Robustness via Anisotropic Randomized Smoothing." arXiv preprint arXiv:2207.05327 (2022).

Hong, Hanbin, Binghui Wang, and Yuan Hong. "UniCR: Universally Approximated Certified Robustness via Randomized Smoothing." arXiv preprint arXiv:2207.02152 (2022).

Hanbin, Hong Y, Kong Y. An Eye for an Eye: Defending against Gradient-based Attacks with Gradients[J]. arXiv preprint arXiv:2202.01117, 2022.

Hong, Hanbin, et al. "Privacy Attributes-aware Message Passing Neural Network for Visual Privacy Attributes Classification." 2020 25th International Conference on Pattern Recognition (ICPR). IEEE, 2021.

Junwen Chen, Haiting Hao, **Hanbin Hong**, Yu Kong, "RIT-18: A Novel Dataset for Compositional Group Activity Understanding", IEEE Conference on Computer Vision and Pattern Recognition (CVPR) Workshops, 2020.

Research Interests

Machien Learning Security, Adversarial Learning, Adversarial Attacks, Adversarial Robustness, Certifiable Robustness, Differential Privacy, and Privacy-preserving Machine Learning.

Software competencies

Programming
Python, Matlab, C\C++, Java

Software Library
PyTorch, Keras, Tensorflow

Operating Systems
Windows, Linux

Honors and Awards

Certificate of Honors Graduate awarded by Qian Xuesen School 2018

2nd Class Zhufeng Scholarship **(Top 10 in 120 students)** 2017

Si Yuan Scholarship awarded by Xi’an Jiaotong University 2016

The 2nd Prize in China Undergraduate Mathematical Contest in Modeling **(Top 5% in 1821 teams)** 2015

The 2nd Prize in Mathematical Contest in Modeling at Xi’an Jiaotong University 2015