Mr. Tingyang Sun

Contact Information

PA, US
582-203-9550
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Education

Pennsylvania State University PA, US
P.h.D in Electrical Engineering 2023-present

University of Southern California CA, US
M.S. in Electrical Engineering 12/2020
- GPA: 3.15/4.0 (overall)
- Research project in Machine Learning

Jinan University China
B.E. in Electrical Engineering and Automation 06/2018
- GPA: 3.6/4.0 (major)
- Rank: top 10%

Honors and Publications

- **University Scholarship** awarded by University of Jinan (2015, 2016, 2017)
- Mingxi Cheng & **Tingyang Sun** & Shahin Nazarian & Paul Bogdan. Trustworthiness Evaluation and Trust-Aware Design of CNN Architectures, *Proceedings of The 1st Conference on Lifelong Learning Agents*, PMLR 199:1086-1102, 2022
- **Tingyang Sun** & Zhang, Jiahao & Yang, Yumeng. (2016). Review on the development and future trend of the intrusion detection system (IDS). 1-6. 10.1109/CESYS.2016.7889907.

Professional and Research Experience

HWJ Technologies Shanghai, China
Software Engineer in Research Dept. 07/2021 – 04/2023
- Full time developer in Software Quality Assurance
  - Responsible for the deep learning network of model acceleration project;
  - Trained, optimized inference and tuned performance of key algorithms in CV and other computing areas;
  - Followed the set schedule to meet the software update; facilitated the testing team to deliver the update on time.

Dr. Paul Bogdan's lab Los Angeles, CA
Part-time research in supervisor's group. 06/2020 - 03/2022
- Core developer in project
  - Proposed Max-Trust, a new pooling function to amplify the eigenvalues with high trustworthiness in the pooling process;
  - Conducted literature review; designed experiment to superimpose Max-Trust on models such as vgg and resnet 50;
  - Data collection and paper preparation; accepted by CoLLAs 2022, pending publication.

Dr. Paul Bogdan's lab Los Angeles, CA
Full-time research in supervisor's group. 01/2020 – 05/2020
- Generative Adversarial Networks (GAN) and Simulated Image Generation
  - Proposed the timeline and project objective;
  - Developed generator models for image generation, which are combined as GAN models;
  - Trained the overall network model and generated simulation images; evaluated model accuracy;

Standard Test

GRE: Verbal: 161; Quantitative: 170; Writing: 3.5

Computer Skills

Languages: Python (proficient), C++ (intermediate);

Deep Learning frame: TensorFlow 2.0;

Others: Shell, Git, Opencv, Scikit, Pandas;

ReasrchGate Homepage: https://www.researchgate.net/profile/Tingyang-Sun