XIJIE HUANG

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EDUCATION

Shanghai Jiao Tong University *Sept 2016 - Present*
Undergraduate, School of Electronics Information and Electrical Engineering
Overall GPA: 89.40/100 (3.82/4.3) Ranking: 2/55
Advisors: Prof.Cewu Lu, Machine Vision and Intelligence Group, SJTU
Prof.Manhua Liu, Department of Instrument Science and Engineering, SJTU

University of California, Los Angeles *June 2019 - Sept 2019*
CSST (Cross-disciplinary Scholars in Science Technology) Program
Advisors: Prof.Mani B. Srivastava, Department of ECE & CS, University of California, Los Angeles

TECHNICAL STRENGTHS

Languages Python, MATLAB, C, C++, Java, HTML
Framework TensorFlow, Keras, Caffe, PyTorch

RESEARCH INTERESTS

My research interests lie in the general area of machine learning, particularly in deep learning, security and privacy, application in computer vision and internet of things.

RESEARCH/PROJECT EXPERIENCE

IIoT Research Center, Department of Electrical Engineering *June 2017 - Sept 2017*
Undergraduate Research Assistance

- Analyzing the information of social network to build connections profile of users
- Optimizing *jieba* word segmentation framework to improve its accuracy and efficiency

Machine Vision and Intelligence Group *Sept 2017 - Present*
Undergraduate Research Assistance

- Researching in computer vision & robotic, particularly in human-object interaction detection.
- Proposing Transferable Interactiveness Network to tackle the imbalance in distribution in human-object interaction problem. Our method outperforms the state-of-the-art methods by 2.38, 3.06, and 2.17 mAP on three Default category sets on HICO-DET, 4.0 and 3.4 mAP on V-COCO
- Building the state-of-the-art dataset of human-object interaction **HAKE** [Website]. HAKE provides elaborate and abundant body part state labels for human instances in a large scale of images and videos.
- One paper accepted in CVPR2019, one paper on arxiv (co-author)

Fingerprint Group, Department of Instrument Engineering *Feb 2019 - Present*
Undergraduate Research Assistance

- Designing Generative Adversarial Network to enhance latent fingerprint
- Optimizing the fingerprint recognition algorithm based on enhanced results

Networked Embedded Systems Laboratory (NESL), UCLA *June 2019 - Present*
Undergraduate Research Assistance (CSST Program)

- Detecting whether a nerual network has been compromised by malware that causes the model to produce incorrect results when the input includes some special trigger for the backdoor.

· Prospecting **NeuronInspect**, using visual interpretability technique to effectively detect trojan backdoors in deep neural network without restoring the trigger and any backdoor samples.

PUBLICATIONS[MY GOOGLE SCHOLAR]

Transferable Interactiveness Knowledge for Human-Object Interaction Detection
*Yonglu Li, Siyuan Zhou, **Xijie Huang**, Liang Xu, Ze Ma, Haoshu Fang, Cewu Lu* *CVPR2019*

HAKE: Human Activity Knowledge Engine
*Yong-Lu Li, Liang Xu, **Xijie Huang**, Xinpeng Liu, Ze Ma, Mingyang Chen, Shiyi Wang, Hao-Shu Fang, Cewu Lu* *arxiv Preprint*

ACADEMIC ACHIEVEMENTS

National Scholarship (Top 2% students), Ministry of Education of P.R.China. 2017.

A Class Scholarship (Top 2% students), Shanghai Jiao Tong University. 2017

Endress+Hauser Scholarship, Endress+Hauser Inc. 2018.

B Class Scholarship (Top 10% students), Shanghai Jiao Tong University. 2018

Second Prize in China Undergraduate Mathematical Contest in Modeling, Shanghai Division. 2017

Meritorious Winner in Mathematical Contest In Modeling & Interdisciplinary Contest In Modeling, Comap. 2018

First Prize in TIDY UP MY ROOM CHALLENGE — ICRA 2018 (Member of Kaibot Team) 2018

CSST Scholarship (USD $5,343) University of California, Los Angeles 2019

Best Presentation Award (UCLA-CSST) 2019

STANDARD TEST

TOEFL	100 (Reading:27 Listening:27 Speaking:23 Writing:23)
GRE	320 (Q170+V150) + 3.0(AW)