XU Shijian

Contact Information

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Education

- **Nanjing University**, Nanjing, China 2014.09 – 2018.06
  B.Sc. in Computer Science and Technology
  National Elite Program

Research Experience

- Tencent AI Lab, Shenzhen, China 2020.02 – 2020.08
  Self-Supervised Representation Learning
  - self-supervised video classification and image classification
- City University of Hong Kong, HK SAR, China 2018.09 – 2019.12
  Single Image Specular Highlight Removal **Draft**
  - propose a deep learning model CDFF-Net that can learn discriminative features for specular highlight removal
  - construct a synthetic dataset of 11000 image pairs with/without specular highlights, which is proved to be able to generalize well on real world data

  Semi-supervised Single Image Heavy Rain Removal **Report**
  - propose an adversarial learning method for semi-supervised single image heavy rain removal, allowing for the utilization of both synthesized and real heavy rain images
  - use frequency decomposition for rain-streak removal and mist removal spontaneously
- Nanjing University, Nanjing, China 2015.09 – 2018.06
  Smartphone App Usage Prediction **Paper**
  - propose a novel LSTM based model for app usage prediction and recommendation, which leverages both temporal-sequence dependency and contextual information to enhance the prediction precision
  - demonstrate that app usage has strong temporal and spacial correlations, based on which we extract contextual features such as time and location to construct the prediction model
  - conduct experiments based on real collected dataset, which verifies the performance of the proposed approach

Publication

- Predicting Smartphone App Usage with Recurrent Neural Networks
  S. Xu, W. Li, X. Zhang, S. Gao, T. Zhan, Y. Zhao, W.-W. Zhu, T. Sun
  International Conference on Wireless Algorithms, Systems, and Applications, 2018.

Awards

- Second Prize of Excellent Bachelor Thesis Award, Nanjing University 2018
- Third Prize of Elite Program Scholarship, Nanjing University 2017
- Honorable Mention for MCM 2017, Nanjing University 2017
- Third Prize of People's Scholarship, Nanjing University 2016
- Second Prize of People's Scholarship, Nanjing University 2015

Academic Activities

- Third International Conference on Mathematics of Data Science, HK SAR 2019
- 2016 China National Computer Congress, Taiyuan, Shanxi 2016

Peronnal Skills

- Programming Language: C, C++, Python, Matlab
- Operating System: Windows, Linux