Tianyu Sun

Contact Information

Computer Science
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Research Interests

Pedestrian Re-identification, Gait Recognition[1], Visual Question Answering, Reinforcement Learning.

Education

National Taiwan University of Science and Technology, Taipei, Taiwan **Spring 2017**
- Exchange student, Computer Science, GPA:4.0/4.0

University of Science and Technology Beijing, Beijing, China **2015 – Present**
- Bachelor, Computer Science, GPA:85.7/100

Research Experience

National Laboratory of Pattern Recognition (NLPR)
Institute of Automation, Chinese Academy of Sciences (CASIA), Beijing, China
Research Intern, supervised by Prof. Liang Wang **Jun 2017 – Present**
Studying pedestrian re-identification and gait recignition[1], proposed a method of increasing the performance of gait recognition by heightening the frame rate with Wasserstein generative adversarial networks.

National Taiwan University of Science and Technology, Taipei, Taiwan
Undergrad Researcher in Machine Learning and Bioinformatics Laboratory, supervised by Prof. Hsing-Kuo Kenneth Pao **Feb 2017 – Jun 2017**
Studied active learning, applied Gaussian process and generative adversarial networks for time series prediction.

University of Science and Technology Beijing, Beijing, China
Undergrad Researcher, supervised by Prof. Rui Wang **Nov 2016 – Feb 2017**
Studied the mechanisms for participatory sensing, applied game theory into crowdsourcing tasks.

Under Review

[1] **T. Sun**, C. Song, Y. Huang, and L. Wang, "Heightening Frame Rate: A WGAN Based Approach for Gait Recognition" **submitted to IEEE ICPR, 2018**.

Projects

Tuning Tree Models with Gird Search
Analyse a dataset with gradient boosting tree model and XGBoost model and tune the model with gird search.

Big Data Feature Selection with sk-learn
Rank the features of a dataset with cross-validation.

Other Experience

ACM-ICPC team@USTB
member **Dec 2015 – Jun 2017**