Fuying Wang

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EDUCATION

Tsinghua University, Beijing   Sept.2015 - Jul.2020
- Bachelor of Science in Electronic Engineering   GPA (overall): 3.59/4.00
- Relevant Courses: Operating System (4.0), Signals and Systems (4.0), Digital Signal Processing (4.0), Database (4.0), Physics for Scientists and Engineers A(2) (4.0)

RESEARCH EXPERIENCE

Robotic tactile sensing | Robotics Institute | Carnegie Mellon University
Advisor: Professor Howie Choset   Jul.2019 – Present
- Contributed on calibrating DVRK force sensors for surgical robots.
- Estimated the stiffness distribution of the target region by utilizing UR5 robot arm and force sensor, and detected sliding force in sliding motion.

Data mining for IT Operations | Department of Computer Science | Tsinghua University
Advisor: Associate Professor Dan Pei   Nov.2018 – Mar.2019
- Accomplished the alert event prediction using algorithms of FP-growth and HSMM.
- Contributed on reproducing and improving the algorithm of FTTree, an accurate log template extraction algorithm based on word frequency.

Face Recognition and Generation | Department of Automation | Tsinghua University
Advisor: Associate Professor Jiwen Lu   Oct.2017 – Jun.2018
- Trained Sphereface model and evaluated it on the LFW dataset and the Megaface dataset.
- Evaluated the performance of Sphereface, Arcface and VGGFace2 models on the IJB-A dataset using the algorithm of Template Adaptation.
- Reproduced the result of DR-GAN and improved it on the feature fusion part.

PROFESSIONAL EXPERIENCE

Industrial big data analysis | IRooTech | Beijing, China
Machine Learning Intern   Jul.2018 – Nov.2018
- Completed a multidimensional excavator data fault diagnosis pipeline.
- Conducted on a real-time equipment working condition monitoring system by clustering device sensor values.

SELECTED AWARDS

- Academic Excellence Scholarship (Top 20%)   Oct.2018
- National Inspirational Scholarship (Top 30%)   Oct.2016
- Freshmen first-class scholarship of Tsinghua University (Top 5%)   Oct.2015

SKILLS

Programming languages: Python, C/C++, Matlab, Scala
Tools: Pytorch, Caffe, ROS, SQL, Spark, Qt, Flask