Xiangyi Yan | Curriculum Vitae

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Academic Qualifications

Southern University of Science and Technology (SUSTech) **Shenzhen, China**
Department of Computer Science and Engineering *2015.09–2019.06 (Expected)*
GPA: 3.85/4.0, Ranking: 3/98

Research Experience

Tsinghua University **Beijing, China**
Humanoid Robot Lab, Department of Mechanical Engineering *2016.07–2016.08*
Knee and ankle coupled exoskeleton project.
Supervisor: Prof. Chenglong Fu.

SUSTech **Shenzhen, China**
UAV Lab, Department of Computer Science and Engineering *2016.09–2017.05*
Automatic UAV landing project:
We mainly developed quadrotor landing algorithms based on DJI SDK, combining visual recognition algorithms for precision and PID control algorithms for smoothness.
Supervisor: Prof. Qi Hao

Chinese Academy of Sciences **Shenzhen, China**
MMLAB, Shenzhen Institutes of Advanced Technology *2018.01–2018.07*
Open set object detection project:
We used deep learning algorithms to solve object detection problems while some test categories are not included in the training set.
Supervisor: Prof. Yu Qiao.

University of California, Irvine **Irvine, USA**
Machine Learning and Bioinformatics Lab, School of ICS *2018.07–2018.09*
Hand pose estimation for video data project:
To our best knowledge, we constructed the largest RGB hand pose video data set. We evaluated current state-of-the-art algorithms on it and built up several deep learning algorithms which take both structural and temporal information in to consideration.
Supervisor: Prof. Xiaohui Xie.

Internship

Tencent **Beijing, China**
Medical AI Lab, Cloud & Smart Industries Group (CSIG) *2018.11–now*
Hand pose estimation for Parkinson's Disease:
We are currently developing and deploying deep learning algorithms to process Parkinson's disease patients' hand pose video data to help doctors to diagnose Parkinson's disease.
Supervised by Dr. Yifei Chen.

Awards and Scholarships

○ **Annual Outstanding Student** **SUSTech**
  First class, Top 5%. *2016, 2017*

○ **Annual National Scholarship Mention** **SUSTech**
  Top 0.5%. *2018*

○ **Visiting Student Travel Grant** **SUSTech**
  Financial support for research at UC Irvine. *2018*

Teaching Experience (Undergraduate Helper)

○ **GE105**
  Basic Program Design (Java), Lab

○ **CS203**
  Data Structures and Algorithm Analysis, Lab

○ **CS301**
  Embedded System Microcomputer Principle, Homework

Notable Course Projects

○ **Pintos: Threads and User Programs**
  CS302 Operating System:
  Advanced functions implemented on a half developed operating system kernel, such as alarm clock, priority scheduling, argument passing and system calls.

○ **Capacitied Arc Routing Problem (CARP)**
  CS303 Artificial Intelligence:
  A solution for CARP based on path scanning algorithm with ellipse rule for initialization and tabu search algorithm for optimization.

○ **Social Network Analysis for Slack (SNA4Slack)**
  CS309 Object Oriented Programming:
  Social network analysis and visualization for Slack user data, such as relationship mining, hot topic mining, interaction visualization, etc.

Professional Skills

○ **Languages:** Python, C/C++, Matlab, Java, Bash, LaTeX.

○ **Software:** Xilinx ISE, ROS, SPSS, AutoCAD, Solidworks, MS Office.

○ **Operating Systems:** Linux, OSX, Windows.