Haoshu Fang

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EDUCATION

School: Shanghai Jiao Tong University; Major: Computer Science; Degree: Bachelor
Graduation date: 07/2018; GPA: 3.6/4.3

PUBLICATIONS & RESEARCH

- **Machine Vision and Intelligence Group of SJTU** 2016.4 – present
  - **RMPE: Regional Multi-person Pose Estimation** [Paper] [Code] [Project]
    Haoshu Fang, Shuqin Xie, Cewu Lu.
    Submitted to IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2017.

COMPETITIONS & AWARDS

- **Microsoft Beauty of Programming 2016** 2016.3 – 2016.5
  Enter the final competition (**60/20000**) and our team gets the **Best Demo** prize in the final(**3/15**).
- **ASC16 Student Supercomputer Challenge** 2016.1 – 2016.4
  Participate in the ASC16 Student Supercomputer Challenge held by Asia Supercomputer Community. Our team is **the 2nd among 178 teams**
- **Microsoft Penta Hackathon** 2015.11
  Our Team ranks **top 12**. The demo of our product is here: https://youtu.be/7uL-M7eat9Q
- **Intel Parallel Application Challenge 2015** 2015.5 - 2015.11
  Compete with more than **200 teams** from all over the country. Our team is **the 4th.**

INTERNSHIP

- **SenseTime** 2016.6 - 2016.12
  Research intern on computer vision, focus on object detection, pose estimation, scene&object classification and model compression.

MAIN PROJECTS

- **Multi-person Pose Estimation**

Final results:	**A framework that can automatically estimate human poses in wild images**
Technology/Tools used:	Caffe, Torch7
Achievement:	Our method is **10%** more accurate(**70.1** VS 59.5) and **600 times** faster than the previous state-of-the-art method
Reference:	RMPE: Regional Multi-person Pose Estimation.

- **Video Colorization**

Final results:	**A software that can automatically color a gray video**
Technology/Tools used:	Caffe, Matlab
Components:	1. Video Segmentation, 2. Feature Extraction, 3. Image colorization
Achievement:	Now it takes about **8s** to color a gray picture, with a laptop processor.

- **Vehicle Driving Simulator**

Final results:	**A Software on windows and an app on Android. They together can simulate the experience of vehicle driving.**
Hardware used:	**●Leap motion** ●An android phone with camera ●A toy car with MSP-EXP430 and Bluetooth ●A laptop
Technology used:	Android Studio, Socket communication, OpenCV
Components:	1. An android app that **sends video of the road** and controls the car 2. A windows program that **captures hand movement** and sends commands.
Achievement:	You can easily control a toy car use your hands. See the demo here: https://youtu.be/lNxO1_AHhXg

- **And other projects like Line Follower Robot, Simple Search Engine, Compiler For Small-C, Game Controller for LFS, etc.**

SKILLS

Languages: C/C++, Python, Lua, MATLAB Frameworks: Caffe, Torch7, Hadoop