HAO WANG

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EDUCATION

The University of Edinburgh *2018 - 2019*
MSc with Distinction in Informatics *Edinburgh, UK*
Supervisor: Robert B. Fisher

Beijing University of Posts and Telecommunications *2014 - 2018*
B.Eng. in Telecommunication Engineering *Beijing, China* Supervisor: Aidong Men

Högskolan i Skövde *Sept. 2016 - Jan. 2017*
Exchange Student in Informationsteknologi *Skövde, Sweden*
Concentration: Operating Systems, System Administration

ACADEMIC PROJECTS

Fine-grained 3D Face Reconstruction Oct. 2019 - Mar. 2020

- Proposed a solution to construct large-scale fine-grained 3D data from RGB-D images
- Constructed a new dataset Fine-Grained 3D face (FG3D) with 200k samples
- Proposed Fine-Grained reconstruction Network (FGNet) for fine-grained 3D face geometry reconstruction

Gender Identification from 3D Facial Surface Model Feb. 2019 - Aug. 2019
Dissertation for Master's degree

- Proposed a novel method on 3D facial gender identification with machine learning & conformal mapping
- Evaluated the proposed method and obtained competitive performance (accuracy over 88%)

Action Recognition Model with First-Person Videos Jan. 2019 - Mar. 2019

- Evaluated third-person action recognition methods with first-person datasets
- Compared the differences between the third and first-person methods
- Proposed and studied a new model combining MobileNet and Two-stream Pyramid

Image Super-Resolution with Convolutional Neural Network Dec. 2017 - June 2018
Dissertation for Bachelor's degree

- Realized the subpixel-based image super-resolution method with pixel shuffle
- Tested the model on both image and video datasets

RESEARCH EXPERIENCE

National Laboratory of Pattern Recognition, CASIA Oct. 2019 - Present
Research Intern *Beijing, China*

- Advisors: Xiangyu Zhu, Zhen Lei
- Projects: Fine-grained 3D Face Reconstruction

Next Generation Internet Research Center, BUPT May 2017 - Oct. 2017
Undergraduate Research Assistant *Beijing, China*

- Advisor: Yang Liu
- Projects: Optimization on DASH-based video service in high-speed railway networks with stochastic methods; Network flow variation detection with mobile crowd sensing

SKILLS

Programming Languages: Python, MATLAB, C/C++, Java, VHDL, Verilog, Assembly Language

Tools: PyTorch, Tensorflow, OpenCV, Dlib

Others: Linux, Git, SQL, LaTeX, FPGA, Arduino, Raspberry Pi