

Shitong Sun

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RESEARCH INTERESTS

Federated Learning, Few shots learning, Computer Vision

EDUCATION

Katholic University of Leuven Artificial Intelligence Master Cum Laude	Sept.2017-Sept.2018
Katholic University of Leuven Electronic Engineering Bachelor Cum Laude	Sept.2015-Jul.2017
Beijing Jiaotong University Electrical Engineering and Automation Bachelor 90.1%	Sept.2013-Jul.2015

WORKING EXPERIENCE

Institute of Automation, Chinese Academy of Science Deep CNN based computer vision	China, 2018-now
Research on person Re-identification algorithm	Apr.2019 - now

- Multiple Granularities Network based human ReID algorithm with some configuration achieves rank-1 accuracy over 95% on Market1501 pedestrian dataset, which is comparable with state of the art.

Cooperation with Skiing APP company:	Apr.2019 - now
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- Apply pedestrian-attribute-recognition algorithm to real-world problems
- Deep Multi-attribute Recognition model to extract clothes color
- Integrate Class Activation Mapping to the model to measure size of the clothes

National key project:	Nov.2018 – Mar.2019
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- Integrate algorithm to the existing Intelligent Scene Exploration and Evaluation (ISEE) platform
- Reconstruction of human 3D model based on Densepose

UNIVERSITY PROJECTS

Master Thesis Deep Neural Network Continual learning	Belgium, Nov.2017-Sept.2018
Supervisor: Prof. Tinne Tuytelaars	

- Using data prototypes to avoid forgetting in continual learning
- Design algorithm for data representation extraction and combination from different tasks

Master Incisor Segmentation Computer Vision	Belgium, Mar.-Jun.2018
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- Build a simple incisor detector based on PCA for initial position estimation
- Apply the Active Shape Model for incisors
- Interpret the shape models with images for delicate segmentation

Bachelor IoT based Pipeline inspection system Project Leader	Belgium, Mar.-Jun.2017
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- Sensor network circuit design for temperature, humidity detection
- Build wireless communication between sensor nodes and remote server
- Build Database and web page visualization

AWARDS

- Graduated with **Cum Laude** Bachelor and Master Honors in KU Leuven in 2017 and 2018
Cum Laude means graduate with distinction in Latin Honours
- Merit Student in Beijing Jiaotong University in 2015
- Study Scholarship in Beijing Jiaotong University in 2014 and 2015 (17/319)

SKILLS

- Language: English TOEFL 90, fluent in both spoken and written English
- Coding: 4 years of coding experience, familiar with Python, C, Java, TCP/IP, MATLAB, Keras, Pytorch, Caffe, Tensorflow