

Liqian MA

KU Leuven

📍 KU Leuven, Kasteelpark Arenberg 10, Leuven, Belgium, 3001
☎ +32 0489147020
✉ liqian.ma@esat.kuleuven.be
🌐 homes.esat.kuleuven.be/~liqianma/
🐙 github.com/charliememory

Summary

I am a 2nd year Ph.D student at [VISICS](#) group of KU Leuven starting from 2016 fall. I am working with [Prof. Luc Van Gool](#). Prior to this, I obtained my Master's and Bachelor's degree from Peking University and South China University of Technology, respectively. My research goal is to develop self-learning AI system. Currently, I am working on image generation, domain adaptation, person re-identification, and future prediction. I have published articles in NIPS, CVPR, ICASSP, ICIP, IEEE Signal Processing Letters and Neurocomputing.

Education

Doctor of Philosophy (Ph.D.)

Oct. 2016 - Present

University of Leuven - KU Leuven

Supervisor: Prof. Luc Van Gool

Department of Electrical Engineering (ESAT) - PSI

Faculty of Science Engineering

Research Field: re-identification, image generation, domain adaptation and future prediction.

Master of Science (M.S.)

Sep. 2013 - Jul. 2016

[Peking University](#)

Supervisor: Prof. Hong Liu

Open Lab on Human Robot Interaction (HRI Lab)

School of Electronics and Computer Engineering

Major: Computer Applied Technology

GPA: 3.88/4.0

Interests: Computer Vision, Machine Learning, Deep Learning and Data Mining.

Bachelor of Engineering (B.E.)

Sep. 2009 - Jul. 2013

[South China University of Technology](#)

Major: Electronic science and technology (microelectronics)

GPA: 3.81/4.0

Main courses: mathematics courses, basic computer science courses, communication courses and electronics courses, e.g., advanced mathematics, linear algebra, probability and statistics, signals and systems, communication theory, artificial circuit, digital circuit, and digital signal processing.

Internship

Research Assistant

Oct. 2015 - Nov. 2015

[Tencent](#)

Surveying the state-of-the-art technology and related works in Multi-Camera Object Tracking (MCT) and Person Re-identification (RE-ID). Evaluating some RE-ID algorithms in indoor scenarios. Developing tracking annotation tool for the data annotation team based on some tracking algorithms.

Algorithm Engineer

Jul. 2015 - Sep. 2015

[Alibaba \(Ant Financial\)](#)

Developing algorithms for the customer service with natural language processing and data analyzing technology. The goal is to analyze the business data and improve the algorithm performance for some specific business.

Projects

Visually analyzing traffic agent for autonomous platform

Oct. 2016 - Present

Developing algorithm such as object detection, tracking and re-identification for the autonomous platform.

Person Re-identification System In Surveillance Environment

Jun. 2014 - Jan. 2016

The system associates individual who appears in non-overlapping surveillance camera views based on the "Pedestrian Detection -- Person RE-ID -- Interactive Rerank" framework. My work includes the design and implementation of the algorithms for Person RE-ID and Interactive Rerank.

Film Review Text Emotional Polarity Analysis

Apr. 2014 - Jun. 2014

The system judges the emotional polarity (positive or negative) of film review text using nature language processing and pattern recognition technology. My work includes the implementation of web page content extraction module and word vectorization module.

Honors & Awards

- Oct 2015/2014 Pivot of Merit Student by PKU
- Oct 2015 May Fourth Scholarship by PKU
- Oct 2014 The 2nd China big data technology innovation contest by CCF, Third Prize
- Sep 2014 National Scholarship by Ministry of Education & PKU
- Jun 2013 "Challenge Cup" of Guangdong province undergraduate extracurricular academic science and technology works competition, Outstanding Winner
- Sep 2012 Guangdong province undergraduate electronic design contest, Third Prize.
- Oct 2012/2011/2010 Pivot of Merit Student by SCUT
- Oct 2012/2011 School Second-class Scholarship by SCUT
- Oct 2010 National Scholarship by Ministry of Education & SCUT

Publications

1. Liqian Ma, Xu Jia, Stamatios Georgoulis, Tinne Tuytelaars, Luc Van Gool. "Exemplar Guided Unsupervised Image-to-Image Translation". arXiv:1805.11145, 2018.
2. Liqian Ma, Qianru Sun, Stamatios Georgoulis, Luc Van Gool, Bernt Schiele, and Mario Fritz. "Disentangled Person Image Generation.". In IEEE International Conference on Computer Vision and Pattern Recognition (**CVPR Spotlight**). 2018.
3. Qianru Sun*, **Liqian Ma***, Seong Joon Oh, Luc Van Gool, Bernt Schiele and Mario Fritz. "Natural and Effective Obfuscation by Head Inpainting". In IEEE International Conference on Computer Vision and Pattern Recognition (**CVPR**). 2018. (* Equal Contributions).
4. **Liqian Ma**, Xu Jia*, Qianru Sun*, Bernt Schiele, Tinne Tuytelaars, and Luc Van Gool. "Pose Guided Person Image Generation." In Advances in neural information processing systems (**NIPS**), 2017. (* Equal Contributions)
5. **Liqian Ma**, Hong Liu, Liang Hu, Can wang, Qianru Sun. "Orientation Driven Bag of Appearances for Person Re-identification". arXiv:1605.02464, 2016.
6. Qianru Sun, Hong Liu, **Liqian Ma** and Tianwei Zhang. "A Novel Hierarchical Bag-of-Words Model for Compact Action Representation". **NeuroComputing**, 2016.
7. Hong Liu, **Liqian Ma**. "Online Person Orientation Estimation Based on Classifier Update". IEEE International Conference on Image Processing (**ICIP Oral**), 2015. (Main Author)
8. Hong Liu, **Liqian Ma**, Can wang. "Body-Structure based Feature Representation for Person Re-identification". IEEE International Conference on Acoustics, Speech, and Signal Processing (**ICASSP**), 2015. (Main Author)
9. Can wang, Hong Liu, **Liqian Ma**. "Depth Motion Detection-A Novel RS-Trigger Temporal Logic based Method". IEEE Signal Processing Letters (**SPL**), 2014.

Patents

1. Hong Liu, Can wang, **Liqian Ma**. "A depth information based motion detection method". National invention patent (In Examination). Patent No: 201410253317.6.
2. Bin Li, Shaohong Lin, **Liqian Ma**, Fengchao Yang, Youhuan Long. "An intelligent LED lamp dimming method and system". National invention patent (Authorized). Patent No: 201210562955.7.
3. **Liqian Ma**, Xiangming Xu, Fengchao Yang, Weiqiao Zhen. "An intelligent LED lamp dimming method and system". National invention patent (In Examination). Patent No: 201210356501.4.

Photos

