

Dr. Ming Zhang 章銘

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EDUCATION

City University of Hong Kong, Hong Kong

Sep. 2018 - Sep. 2021

Ph.D. in Electrical Engineering

Supervisor: Prof. Hong Yan

City University of Hong Kong, Hong Kong

Sep. 2017 - Aug. 2018

MSc. in Electronic Information Engineering

with Distinction

Supervisor: Prof. Tommy W S Chow

Nanjing Normal University, Nanjing, China

Sep. 2013 - Jun. 2017

B.Eng. in Automation

Outstanding Undergraduate Thesis Award

Supervisor: Prof. Fei Xie

RESEARCH INTERESTS

Machine Learning, Computer Vision.

My research interests mainly focus on visual recognition and retrieval. I am particularly interested in developing hashing/quantization methods for efficient large-scale image retrieval, making full use of unannotated data for semi-supervised/unsupervised retrieval, and preserving the semantics discrimination and modality invariance for cross-modal retrieval.

PUBLICATIONS (* INDICATES ALSO THE CORRESPONDING AUTHOR)

- **Ming Zhang***, Xuefei Zhe, Hong Yan. “Orthonormal Product Quantization Network for Scalable Face Image Retrieval.” *Submitted to IEEE Transactions on Neural Networks and Learning Systems*, 2021.
- **Ming Zhang**, Xuefei Zhe, Shifeng Chen, Hong Yan. “Deep Center-Based Dual-Constrained Hashing for Discriminative Face Image Retrieval.” *Pattern Recognition (PR)*, p. 107976, 2021. [Code]
- **Ming Zhang***, Sheheryar Khan, Hong Yan. “Deep Eigen-Filters for Face Recognition: Feature Representation via Unsupervised Multi-Structure Filter Learning.” *Pattern Recognition (PR)*, p. 107176, 2020.
- **Ming Zhang**, Xuefei Zhe, Le Ou-Yang, Shifeng Chen, Hong Yan. “Semantic Hierarchy Preserving Deep Hashing for Large-Scale Image Retrieval.” *The 17th International Conference on Machine Vision Applications (MVA)*, 2021 (**Oral**). [Code]
- **Ming Zhang***, Hong Yan. “Improved Deep Classwise Hashing With Centers Similarity Learning for Image Retrieval.” *The 25th International Conference on Pattern Recognition (ICPR)*, 2021.

SELECTED AWARDS

- **Research Tuition Scholarship (RTS)**, City University of Hong Kong 2020 - 2021
- **Honorable Mention**, The Interdisciplinary Contest In Modeling (ICM) 2016
- **The First Prize in Jiangsu Province**, China Undergraduate Mathematical Contest in Modeling (CUMCM) 2015

PROFESSIONAL ACTIVITIES

Paper Reviews

- IJCAI 2021
- Neurocomputing

Conference Presentations

- MVA 2021 July. 2021
- ICPR 2020 Jan. 2021

SKILLS

OS

GNU/Linux, Windows

Programming Languages

Python, Matlab, C/C++

Others

Markdown, Git, Vim