Dr. Ming Zhang 章銘

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WORK EXPERIENCE

Centre for Intelligent Multidimensional Data Analysis Limited Nov. 2021 - Present Postdoctoral Fellow Funded by Research Talent Hub (RTH) Scheme

Supervisor: Prof. Hong Yan

Working on a large AI project using tensor and hypergraph theories.

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

MSc. in Electronic Information Engineering

Sep. 2017 - Aug. 2018

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.

SELECTED PUBLICATIONS

- Ming Zhang, Xuefei Zhe, Hong Yan. "Orthonormal Product Quantization Network for Scalable Face Image Retrieval." International Journal of Computer Vision (IJCV), Under Review, 2022.
- 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)

PROFESSIONAL ACTIVITIES

Paper Reviews

- IJCAI 2021
- Neurocomputing

Conference Presentations

• MVA 2021 July. 2021

• ICPR 2020 Jan. 2021

SKILLS

\mathbf{OS}

GNU/Linux, Windows

Programming Languages

Python, Matlab, C/C++

Others

Markdown, Git, Vim