Hong Liu

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RESEARCH INTERESTS

Computer Vision and Information Retrieval.
Recent works: large-scale image retrieval, and multi-/cross-modality retrieval, especially binary code learning, big data indexing and deep feature learning.

EDUCATION

Ph.D candidate of Computer Science   2016.09 - present
Xiamen University, Xiamen, China
Advisor: Rongrong Ji

Master of Computer Science,   2012.09 - 2015.06
Jiangxi Normal University, Nanchang, China
Advisor: Jianyi Wan

Bachelor of Electronic Information Engineering,   2008.09 - 2012.06
Hubei University of Automotive Technology, Shiyan, China

PUBLICATION

Hong Liu, Rongrong Ji, Jingdong Wang, and Chunhua Shen. Ordinal Constraint Binary Coding for Approximate Nearest Neighbor Search. IEEE Transaction on Pattern Analysis and Machine Intelligence. 2018.

Jianqiang Qian, Xianmin Lin, **Hong Liu**, Youming Deng, and Rongrong Ji. Towards Compact Visual Descriptor via Deep Fisher Network with Binary Embedding. ICME, 2018. (Oral)

Rongrong Ji, **Hong Liu**, Liujuan Cao, Di Liu, Yongjian Wu, and Feiyue Huang. Towards Optimal Manifold Hashing via Discrete Locally Linear Embedding, IEEE Transaction on Image Processing. (Accepted)

Hong Liu, Rongrong Ji, Yongjian Wu, Feiyue Huang, and Baochang Zhang, *Cross-Modality Binary Code Learning via Fusion Similarity Hashing.* In Proceedings of the Conference on Computer Vision and Pattern Recognition 2017 (CVPR 2017).

Hong Liu, Rongrong Ji, Yongjian Wu, and Feiyue Huang, *Ordinal Constrained Binary Code Learning for Nearest Neighbor Search.* In Proceedings of the Thirty-First AAAI Conference on Artificial Intelligence (AAAI 2017). (Oral)

Hong Liu, Rongrong Ji, Yongjian Wu, and Gang Hua, *Supervised Matrix Factorization for Cross-Modality Hashing.* In Proceeding of the 25th International Joint Conference on Artificial Intelligence (IJCAI 2016).

Hong Liu, Rongrong Ji, Yongjian Wu, and Wei Liu, *Towards Optimal Binary Code Learning via Ordinal Embedding.* In Proceedings of the Thirtieth AAAI Conference on Artificial Intelligence (AAAI 2016).

Hong Liu, Aiwen Jiang, Mingwen Wang, and Jianyi Wan, *Local Similarity Preserved Hashing Learning via Markov Graph for Efficient Similarity Search.* Neurocomputing

159 (2015): 144-150.

RESEARCH EXPERIENCE	*Research Intern* Youtu Lab, Tencent Technology (Shanghai) CO.,Ltd, China	2015.07 - 2015.09

- Query by Humming/Singing
- Large-scale Music Information Retrieval

AWARDS National Scholarships, 2017-2018.

Our team has ranked two No.1 and two No.2 on the different Query by Humming/Singing tasks in MIREX 2015, in 16-th International Conference on Music Information Retrieval. 2015.10

The Jiangxi Provincial Government Scholarship 2015.06

The Hubei Provincial Government Scholarship (Twice). 2011, 2012

Activities **Reviewer**: TIP, TKDE, PR, PRL, Neurocomputing, TVCJ, ACM MM, ACM ICMR, PLOS ONE.

Program Committee of Large-Scale 3D Multimedia Analysis and Applications in ICMR 2018.

TALKS Supervised Matrix Factorization Hashing, The 25th International Joint Conference on Artificial Intelligence (IJCAI 2016), New York, USA, 2016.

Multi-Document Summarization, The 13 th China National Conference on Computational Linguistics (13 th CCL), Wuhan, China, 2014.

Markov Random Walk Hashing, The 20 th China Conference on Information Retrieval, Kunming, China, 2014.

PROGRAM SKILLS Proficiency with Matlab, C/C++, Python.
 Experienced in Java, C# and VHDL.

REFERENCES Rongrong Ji
 Professor
 Xiamen University, Xiamen, China
 E-mail: rrji@xmu.edu.cn