Xiaopeng Yang

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Summary

Research experience in machine learning and its applications for 5+ years. Authored or co-authored over 10 papers in journals and conferences. Hold 2 projects transferred successfully from academy to industry. Extensive public speaking experience with superior ability to develop compelling and coherent presentations. Able to work in a high-stress, fast-paced environment.

Skills

[Programming Languages]	Python	Java	C#	JavaScript	SQL	MATLAB
	☺	★	★	♥	♥	♥

☺ proficient   ★ familiar   ♥ general

[Frameworks and tools]   Tensorflow, React, MongoDB, MySQL, Git, Jekyll, Markdown, LaTex

Experience

[Postdoctoral Fellow] − [University of Waterloo, Waterloo, Canada]   [2016.10] − [current]
- Designed a novel deep neural model for poetry generation
- Developed a Chinese poetry generation system based on Deep Learning (**Python+Tensorflow**) (transferred to **Boyan Dodo Chabot**)
- Built two human evaluation websites for poetry quality assessment (**JavaScript+MongoDB**) (**React+MySQL**)

[Research Intern] − [National Institute of Informatics, Tokyo, Japan]   [2014.09] − [2015.02]
- Designed an algorithm based on metric learning for image search re-ranking (published in **IEEE Transactions on Image Processing 2016**)

[Research Intern] − [Microsoft Research Asia, Beijing, China]   [2014.02] − [2014.07]
- Designed a graph-based video duplicate detection algorithm
- Developed a video duplicate detection system (**C++**)(transferred to **Bing Video Search**)

[Software Engineer Intern] − [University of Chinese Academy of Sciences,   [2012.09] − [2013.02] Beijing, China]
- Developed Weibo analysis system including data analysis and prediction (**Java**)
- Developed the demonstration website of Weibo analysis system (**JavaScript**)

Education

[University of Chinese Academy of Sciences] — [Ph.D., Beijing, China]   [2012.09] − [2016.07]

Major: Computer Application Technology

Research domain: Multimedia Content Analysis, Multimedia Information Retrieval

[Shandong Normal University] — [M.S., Jinan, China]   [2010.09] − [2012.07]

Major: Computer Software and Theory

[Shandong Normal University] — [B.S., Jinan, China]   [2006.09] − [2010.07]

Major: Computer Science and Technology

Publications

Xiaopeng Yang, Xiaowen Lin, Shunda Suo, and Ming Li. Generating Thematic Chinese Poetry using Conditional Variational Autoencoders with Hybrid Decoders. arXiv preprint arXiv:1711.07632, 2017. **[Accepted by IJCAI-ECAI-2018]**

Xiaopeng Yang, Tao Mei, Yongdong Zhang, Jie Liu, and Shin'ichi Satoh. Web Image Search Re-ranking with Click-based Similarity and Typicality. IEEE Transactions on Image Processing, vol. 25, no. 10, pp. 4617-4630, Oct. 2016.

Yongdong Zhang, **Xiaopeng Yang**, and Tao Mei. Image Search Reranking with Query-dependent Click-based Relevance Feedback. IEEE Transactions on Image Processing, vol. 23, no. 10, pp. 4448–4459, Oct. 2014.

Xiaopeng Yang, Tao Mei, and Yongdong Zhang. Rescue Tail Queries: Learning to Image Search Re-rank via Click-wise Multimodal Fusion. In Proceedings of the 22nd ACM International Conference on Multimedia, 2014, pp. 537-546. **[Full paper, 19.2% acceptance rate]**

Xiaopeng Yang, Yongdong Zhang, Ting Yao, Zheng-Jun Zha, and Chong-Wah Ngo. Click-boosting Random Walk for Image Search Reranking. In Proceedings of the 5th International Conference on Internet Multimedia Computing and Service, 2013, pp. 1-6. **[Best paper award]**

Xiaopeng Yang, Yongdong Zhang, Ting Yao, Chong-Wah Ngo, and Tao Mei. Click-boosting Multi-modality Graph-based Reranking for Image Search. Multimedia Systems, vol. 21, no. 2, pp. 217-227, 2015.

5 papers were published during masters, including 3 first-author papers (**refereed**).

Awards & Honors

Outstanding Graduate of Beijing, China (2016); **Google Anita Borg Memorial Scholarship** (2015); Stars of Tomorrow of **Microsoft Research Asia**, 2 years (2013, 2014); **Chinese Government Scholarship** for Ph.D. Candidates (2014); UCAS Excellent Student Pacesetter (2014); UCAS Excellent Student Leader, 2 years (2013, 2014); Excellent Bachelor Thesis of Shandong Province, China (2010); Excellent Student of Shandong Province, China (2009)