

Yong Yuan

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Education

University of Chinese Academy of Sciences

M.S. IN SIGNAL AND INFORMATION PROCESSING

Beijing, China

Sep. 2013 - Jul. 2016

Xidian University

B.S. IN SCIENCE AND TECHNOLOGY OF THE ELECTRONICS INFORMATION

Xi'an, China

Sep. 2009 - Jul. 2013

Professional Experience

Meituan

ALGORITHM ENGINEER

Beijing, China

Jul. 2016 - Present

- Developed and optimized anti-cheat strategies to fetch sellers who violate the rules of the meituan online takeaway platform.
- Analyzed data of the meituan takeaway business for risk control. Did report forms to monitor some important data.

Etracker Team (Student's Start-up)

ALGORITHM ENGINEER

Xi'an, China

Oct. 2015 - Jul. 2016

- Designed and implemented eye-gaze detection algorithms to track pupil using C++, OpenCV and OpenMP.
- Implemented eye tracker calibration algorithms to map attention coordinates to screen coordinates, and developed pupil tracking desktop application using QT.

OPTical Imagery Analysis and Learning Lab (Prof. Xuelong LI)

RESEARCHER FOR CONTENT BASED IMAGE RETRIEVAL (CBIR), UNDERGRADUATE RESEARCH

Xi'an, China

Sep. 2013 - Jul. 2016

- Researched large-scale content based image retrieval method including hashing based method and product quantization method.
- Proposed new hashing based methods for CBIR using sparse coding and matrix factorization.
- Built object detection system using HOG and SVM method for a 973 program.

Personal Projects

CNN for Image Retrieval

DEEP LEARNING, [CODE](#)

Apr. 2015 - Apr. 2016

- Researched content-based image retrieval using VGG convolutional neural network.
- Implemented prototype that users can obtain semantic similarity image relevant to a query on web site.
- Optimized the query response speed to make sure it responds to the user's query in a timely manner.

Hashing Baseline for Image Retrieval

APPROXIMATE NEAREST NEIGHBOR RESEARCH, [CODE](#)

Feb. 2013 - Jun. 2016

- Designed a framework to validate the performance of various hashing methods with different evaluations.
- Implemented some hashing methods, and proposed new hashing method for image retrieval.

DuplicateSearch

OBJECT RETRIEVAL

Jun. 2015 - Mar. 2016

- Implemented the BoW, VLAD, and Fisher Vector encoding methods using VLFeat, and conducted object retrieval experiments on a 100,000 clothes and shoes image dataset.
- Built multithreads using openMP to speed up feature extraction and clustering.
- Improved the mean average precision using the RANSAC reranking algorithm.

SeetaFaceLib

FACE IMAGE RETRIEVAL SYSTEM, [CODE](#)

Sep. 2016 - Oct. 2016

- Developed a face image retrieval system using CNN method based on SeetaFaceEngine.
- Optimized the query response speed using Local Sensitive Hashing method.

Writing

- Xuelong Li, Yong Yuan and Xiaoqiang Lu, Latent Semantic Minimal Hashing for Image Retrieval. IEEE TIP, 2016 (MINOR REVISION)
- Yong Yuan, Xiaoqiang Lu, and Xuelong Li. Learning Hash Functions Using Sparse Reconstruction. ACM ICIMCS, pp. 14-18, 2014 (Best Paper Runner-up Award)

Technical Skills

Programming C++/C, Python, Matlab, SQL, HTML, CSS, LaTeX
Tools OpenCV, Caffe, Xcode, QT, Jupyter, Git, Django
Languages Chinese, English

Honors & Awards

- 2016.4 **Merit Student**, University of Chinese Academy of Sciences
- 2012.11 **National Scholarship**, Xidian University
- 2011.11 **The First Prize Scholarship**, Xidian University
- 2010.11 **National Scholarship for Encouragement**, Xidian University