

Yong Yuan

SOFTWARE ENGINEER · SECURITY EXPERT

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Education

University of Chinese Academy of Sciences

B.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

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

Beijing, China

Jul. 2016 - Present

Etracker Team (Student's Start-up)

ALGORITHM ENGINEER

- 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.

Xi'an, China

Oct. 2015 - Jul. 2016

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

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

- Researched means of retrieving a corresponding video based on image contents using image similarity algorithm.
- Implemented prototype that users can obtain torrent magnet links of corresponding video relevant to an image on web site.

Xi'an, China

Sep. 2013 - Jul. 2016

Personal Projects

CNN for Image Retrieval

RESEARCHER FOR CBIR USING DEEP LEARNING

- Researched means of retrieving a corresponding video based on image contents using image similarity algorithm.
- Implemented prototype that users can obtain torrent magnet links of corresponding video relevant to an image on web site.

Sep. 2012 - Feb. 2013

Hashing Baseline for Image Retrieval

APPROXIMATE NEAREST NEIGHBOR RESEARCH

- Implemented some hashing methods, note some hashing methods were found at the authors homepages, and inserted them to the framwork.
- Implemented some evaluations for validating the effectiveness of hashing methods, and made the evalua- tions complete.
- Designed and proposed new hashing methods for image retrieval based on the toolbox.

Mar. 2011 - Oct. 2011

DuplicateSearch

OBJECT RETRIEVAL

- Extracted SIFT feature descriptor to overcome brighthness variance, rotation variance, translation variance and scale variance.
- Quantized each extracted local feature into one of visual words, and then represent each image with a global feature by histogram of the visual words.
- Built multithreads by openMP to speed up feature extraction and the process of clustering.
- Improved the mean average precision (mAP) by reranking algorithm.

Jul. 2012 - Jun. 2013

SeetaFaceLib

FACE IMAGE RETRIEVAL AND RECOGNITION

- Completed feature extraction offline and made dimensionality reduction.
- Deployed the prototype with the lightweight web development framework CherryPy.
- Optimized the code to make sure it respond to the user's query (milliseconds) in a timely manner.

Dec. 2011 - Feb. 2012

Honors & Awards

- 2016.4 **Merit Student**, University of Chinese Academy of Sciences
- 2014.7 **Best Paper Runner-up Award**, ACM ICIMCS
- 2012.11 **National Scholarship**, Xidian University
- 2011.11 **The First Prize Scholarship**, Xidian University
- 2010.11 **National Scholarship for Encouragement**, Xidian University

Writing

- Xuelong Li, Yong Yuan and Xiaoqiang Lu, Latent Semantic Minimal Hashing for Image Retrieval. IJCV, 2016(MAJOR 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)