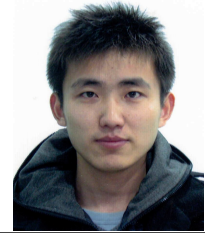


# Curriculum Vitae



## PERSONAL DETAILS

SURNAME Zhou  
FIRST NAME Xiangzeng  
DATE OF BIRTH April 18 1988  
OCCUPATION Ph.D. Student  
MOBILE +086-15934898828

## CONTACTS

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## RESEARCH INTERESTS

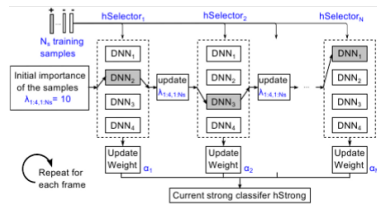
Object Tracking, Object Recognition, Machine Learning, Deep Learning

## QUALIFICATIONS

JUL. 2010 - PRESENT	<b>Ph.D.</b>	COMPUTER SCIENCE & TECHNOLOGY	<b>Northwestern Polytechnical University</b>
SEPT. 2006 - JUL. 2010	<b>B.S.</b>	COMPUTER SCIENCE & TECHNOLOGY	<b>Northwestern Polytechnical University</b>

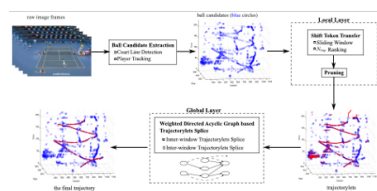
## PROJECT EXPERIENCE

### 2013.06 ~ 2014.03 Object Tracking using Deep Learning Technology



We tackle the generic object tracking problem by a novel approach that incorporates a deep learning architecture with an on-line AdaBoost framework. Inspired by its multi-level feature learning ability, a stacked denoising autoencoder (SDAE) is used to learn multi-level feature descriptors from a set of auxiliary images.

### 2012.04 ~ 2012.12 Ball Trajectory Tracking in Tennis Game Video



A two layered data association method to improve the robustness of tennis ball tracking. At the local layer, a shift token transfer method is proposed, based on shift window processing, to generate a set of short trajectories or "trajectorylets". At the global layer, a unique ball trajectory is obtained by applying a dynamic programming based splice method to a directed acyclic graph consisting of trajectorylets.

### 2011.05 ~ 2011.12 Towards a Queue-Aware ATM: Monitoring and Managing Queues in front of ATMs



In order to monitoring queues in front of ATMs, apply stereo camera real-time object tracking approach. With the aid of camera's real-time tracking, develop a simple application system which can give customer a suggested queue and estimated queuing time.

### 2010.09 Keyword Spotting based Real-time Dialog System



Make a question-set limited Dialog System implemented by Keyword Spotting approach with improved Online Garbage Model. My main task is proposing a improved method based on Online Garbage Keyword Spotting Model.

2010.09

## Keyword Spotting Tool



Make a Keyword Spotting Tool which user can dynamically add or remove keywords by hand.

## SKILLS

- • • C
- • Python
- • • Matlab
- • Bash
- • English
- • Emacs
- • • OpenCV
- • Git
- • Linux
- •  $\text{\LaTeX}$

## HONORS AND AWARDS

- |  |   |
|--|---|
| 2014<br>2014<br>2013<br>2011<br>2010<br>2009<br>2009<br>2009<br>2008<br>2008<br>2007<br>2007<br>2007 | The Paper of ICIP 2014 was recognized as the Top 10 papers<br>Received IEEE Signal Processing Society Travel Grant to Attend ICIP 2014, Paris, France<br>Received IEEE Signal Processing Society Travel Grant to Attend ICASSP 2013, Vancouver, Canada<br>Awarded by Northwestern Polytechnical University Scholarship Fund for Six-month Visiting Researcher<br>First Prize Scholarship of Northwestern Polytechnical University<br>National Endeavor Scholarship<br>First Prize of C Programming Contest of Northwestern Polytechnical University<br>First Prize Scholarship of Northwestern Polytechnical University<br>National Endeavor Scholarship<br>First Prize Scholarship of Northwestern Polytechnical University<br>Second Prize of ACM Programming Contest of Northwestern Polytechnical University<br>First Prize Scholarship of Northwestern Polytechnical University<br>Third Prize of Mathematical Modeling Contest of Northwestern Polytechnical University |
|--|---|

## ACTIVITIES

- |  |   |
|--|---|
| Oct. 28, 2014<br>May 30, 2013<br>Mar., 2012 - Sept., 2012<br>Apr., 2011 - Oct., 2011<br>Nov. 23 - 25, 2010<br>Oct. 26 - 29, 2010<br>Jul., 2009<br>Jun., 2009 | <b>Oral Presentation</b> on ICIP 2014<br><b>Poster Presentation</b> on ICASSP 2013<br><b>Visiting Researcher</b> at University of East Anglia, Norwich, U.K.<br><b>Conference Organizing Committee Member</b> for APSIPA ASC 2011<br><b>Oral Presentation</b> on ICALIP 2010<br><b>Invited Demonstration</b> for UIC/ATC 2010<br><b>Intern</b> at China Pacific Insurance (Group) Co., Ltd.<br><b>Intern</b> at KunShan (Suzhou) Ambow Software Training Base |
|--|---|

## PUBLICATIONS

- [1] **Xiangzeng Zhou**, Lei Xie, Qiang Huang, and Stephen J. Cox. Tennis ball tracking using a two-layered data association approach. *IEEE Transactions on Multimedia (TMM)*, 2014 (Accepted).
- [2] **Xiangzeng Zhou**, Lei Xie, Peng Zhang, and Yanning Zhang. An ensemble of deep neural networks for object tracking. In *IEEE International Conference on Image Processing (ICIP)*, Paris, France, 2014.
- [3] **Xiangzeng Zhou**, Qiang Huang, Lei Xie, and Stephen J. Cox. A two layered data association approach for ball tracking. In *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, Vancouver, Canada, 2013.
- [4] Qiang Huang, Stephen J. Cox, **Xiangzeng Zhou**, and Lei Xie. Detection of ball hits in a tennis game using audio and visual information. In *IEEE Asia-Pacific Signal Information Processing Association Annual Summit and Conference (APSIPA ASC)*, pages 1–10, Hollywood, California, 2012.
- [5] Bingfeng Li, Lei Xie, **Xiangzeng Zhou**, Zhonghua Fu, and Yanning Zhang. Real-time speech-driven virtual avatar. In *National Conference on Man-Machine Speech Communication (NCMMSC)*, Xi'an, China, 2011.
- [6] Jianwei Niu, Lei Xie, Xiaoming Lu, **Xiangzeng Zhou**, and Yanning Zhang. Multi-confidence feature integration for utterance rejection in robust speech recognition. In *National Conference on Man-Machine Speech Communication (NCMMSC)*, page 4, Xi'an, China, 2011.
- [7] Lei Xie, Wenhui Zhao, **Xiangzeng Zhou**, Xiaohai Tian, Bingfeng Li, Naicai Sun, Yali Zhao, and Yanning Zhang. Speech and auditory interfaces for ubiquitous, immersive and personalized applications. In *Immersive and Personalized Applications, Ubiquitous Intelligence Computing and the 7th International Conference on Autonomic Trusted Computing (UIC/ATC)*, Xi'an, China, 2010.



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