Zehuan Yuan

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EDUCATION BACKGROUND

Nanjing University, Nanjing, China

Ph.D. 2014.09 - now

Department of Computer Science and Technology

* Supervisor: Prof. Tong Lu

Nanjing University, Nanjing, China

M.S. 2012.09 - 2014.06

Department of Computer Science and Technology

* Supervisor: Prof. Tong Lu

Nanjing University, Nanjing, China

B.S. 2008.09 - 2012.06

Department of Computer Science and Technology

* Overall GPA: 4.36/5 Major GPA: 4.45/5 Rank: 19/160

RESEARCH INTERESTS

Computer Vision: Unsupervised vision problems including large-scale object co-segmentation and category discovery; high-level vision problems such as semantic scene understanding and story-telling of images and videos.

Machine Learning: Structure learning and optimization methods, especially on scalable optimization and efficient inference for higher-order models.

RESEARCH EXPERIENCE

State Key Lab for Novel Software Tech. of Nanjing University

2012.09 - now

- * Postgraduate mentored by Prof. Tong Lu.
- * We focus on how to improve unsupervised category discovery using context constraints and attempt to address large-scale object co-segmentation.

Undergraduate Innovation Project of the Ministry of Education, China 20

2010.12 - 2011.12

- * Team leader of the project advised by Prof. Tong Lu.
- * We propose an incremental 3D reconstruction framework to refine an existing 3D model using online images of the same object.

PUBLICATIONS

Journal papers

[J01]. Palaiahnakote Shivakumara, **Zehuan Yuan**, Danni Zhao, Tong Lu, and Chew Lim Tan. New Gradient-Spatial-Structural Features for Video Script Identification. *Computer Vision and Image Understanding (CVIU)*, 34(6): 559-564, 2014.

[J02]. **Zehuan Yuan**, and Tong Lu. Incremental 3D Reconstruction Using Bayesian Learning. *Applied Intelligence*, 39(4): 761-771, 2013.

Conference papers

[C01]. **Zehuan Yuan**, Tong Lu, and Palaiahnakote Shivakumara. A Novel Topic-level Random Walk Framework for Scene Image Co-Segmentation. *European Conference on Computer Vision (ECCV)*. pp.695-709, 2014.

[C02]. **Zehuan Yuan**, and Tong Lu. A Novel Context-Aware Topic Model for Category Discovery in Natural Scenes. *Asian Conference on Computer Vision* (ACCV). 2014.

[C03]. **Zehuan Yuan**, Tong Lu, Haoyi Zhou, Chen Bin, and Jianing Li. Incremental 3D Reconstruction Using Bayesian Learning. *International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems (IEA/AIE)*. pp.754-763, 2012. (Best Paper Award)

PATENT

Zehuan Yuan, and Tong Lu. An Incremental 3D Reconstruction Method Based on PMVS and Bayesian Model. ZL201110411429.6. (National Invention Patent, China)

CONTEST

National Graduate Contest on Smart-City Technology and Design

2014

- * Project: We propose an new concept to design a scalable and intelligent building management system.
- * Team member: Qisu Li, **Zehuan Yuan**, Yirui Wu, and Guozhu Liang.
- * Grade: National Second Prize.

"Colledge Cup" of Chinese College Students of Academic Science and Technology 2012

- * Project: We design an intelligent building system platform on which many applications of diverse function can be designed and programmed easily.
- * Team member: Run Xing, Zhi Qu, Zehuan Yuan, Wenliang Dai, Yu Yin, Xuanjun Dong, Runhua Chen, and Zhun Shi.
- * Grade: National Bronze Prize and Golden Prize at Jiangsu Province.
- * Remark: It is the highest level contest for graduate and undergraduate students in China.

INTERNATIONAL EXCHANGE

2012 An one-month short visit to National University of Singapore.

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HONORS & AWARDS	
<u>Honors</u>	
* Outstanding Student Leader of Nanjing University.	2014
* Outstanding Student of Nanjing University.	2013
* Best 100 Excellent College Students of China Computer Federation (CCF).	2012
* Outstanding Graduate of Nanjing University.	2012
* Outstanding Student of Nanjing University.	2011
\underline{Awards}	
* Selected into the Talent Project of Nanjing University.	2014
* Second Prize in National Intelligent City Contest for Graduate Students in Chir	na. 2014
* Graduate National Scholarship.	2013
* Best Paper Award by ISAI (International Society of Applied Intelligence) in IEA	A/AIE. 2012
* National Bronze Prize in the Eighth "Colledge Cup" of Chinese College Student	ts. 2012
* Golden Prize in the Seventh "Colledge Cup" of College Students at Jiangsu Pro	wince. 2012
* Excellent Thesis for Bachelor's Degree of Nanjing University.	2012
* Excellent Undergraduate Innovation Project of Nanjing University.	2012
* National Motivational Scholarship.	2012
* National Motivational Scholarship.	2011
* National Motivational Scholarship.	2010