

Zhe Yang

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RESEARCH INTERESTS

Mobile Systems, Machine Learning, Crowdsourcing.

EDUCATION

- | | |
|---|-----------------------|
| Shanghai Jiao Tong University, Shanghai, China
Third-year master's degree candidate
Major: Electronic Engineering
Advisor: Prof. Xinbing Wang | Sep. 2014 till now |
| École Centrale de Nantes, Nantes, France
Double-diploma general engineering program
Major: Virtual Engineering | Sep. 2012 – Aug. 2014 |
| Shanghai Jiao Tong University, Shanghai, China
Bachelor of science
Major: Information Engineering | Sep. 2010 – Jun. 2012 |

PUBLICATIONS

- Z. Yang**, Y. Bao, C. Luo, X. Zhao, S. Zhu, C. Peng, Y. Liu, X. Wang, “ARTcode: Preserve Art and Code In Any Image”, *the 2016 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp)*, Sep. 2016, Heidelberg, Germany.
- Z. Yang**, Z. Zhang, Y. Bao, X. Gan, X. Tian, X. Wang, “OnTac: Online Task Assignment for Crowdsourcing”, *the 2016 IEEE International Conference on Communications (ICC)*, May 2016, Kuala Lumpur, Malaysia.
- Y. Wu, X. Wang, **Z. Yang**, X. Gan, X. Tian, X. Wang, “Crowdclustering Items into Overlapping Clusters”, *the 2016 IEEE International Conference on Communications (ICC)*, May 2016, Kuala Lumpur, Malaysia.

RESEARCH EXPERIENCES

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|---|-----------------------|
| Adaptive Robust Dot Matrix Barcode Implementation
- Managed a group of five students.
- Designed a structure that we call Colored Dot Matrix to represent an image.
- Introduced a data hiding technique to insert the code into an image.
- Designed an decoding algorithm accordingly. | Apr. 2015 – Mar. 2016 |
| Multi-color Barcode Streaming with Hue-based Color Selection
- Conducted a series of experiments to test the stability of colors' attributes under different illuminance conditions.
- Proposed a robust decoding algorithm and participated in decoding implementation.
- Conducted experiments to test the accuracy of this barcode under variant conditions. | Apr. 2015 – Feb. 2016 |
| Online Task Assignment Algorithm in a Crowdsourcing System
- Integrated an online EM algorithm to update parameters in crowdsourcing.
- Designed a task-worker pairing scheme aimed at enhancing the efficiency and accuracy of the crowdsourcing system.
- Conducted simulations that demonstrated the performance of our algorithm. | May 2015 – Oct. 2015 |

PROFESSIONAL EXPERIENCE

Internship in MSC Software, Paris, France

May 2014 – Aug. 2014

- Implemented a thermal model of an Alenia aircraft within a European project TOICA.
- Programming language: Python.
- Internship mentor: Mr. Olivier Tabaste.

Virtual Engineering Project, Nantes, France

Feb. 2014 – May 2014

- Managed a group of three students from École Centrale de Nantes.
- Integrating a tracking system (Kinect) with a virtual reality headset Oculus Rift within Unity3D.
- Programming language: C# and JavaScript.

AWARDS

National Scholarship	Sep. 2016
National Postgraduate Mathematic Contest in Modeling Second Prize	Oct. 2015
First Prize Academic Scholarship of Shanghai Jiao Tong University	Sep. 2015
National Scholarship of China Scholarship Council	2012 – 2014
Second Prize Academic Scholarship of Shanghai Jiao Tong University	Sep. 2011

SKILLS

Programming

Matlab, L^AT_EX, C++, Java, Python

Languages

Chinese (mother tongue), English (TOEFL 112, GRE 328+3.5AW), French (fluent)

EXTRACURRICULAR ACTIVITIES

Volunteer at ACM China Council Shanghai Summit	May 2016
Vice President at SJTU l'Association Sino-Française	2015 - 2016
Player at soccer team of SJTU EE Department	2015 - 2016
Visitor at Laval Virtual 2014	Mar. 2014

Hobbies

Playing soccer, skiing, watching movies, traveling.