

# Zike Yan

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## CONTACT INFORMATION

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## RESEARCH INTERESTS

Computer Vision, Machine Learning

## EDUCATION

**Harbin Engineering University**, Harbin, China      **Sep. 2015 - present**  
M. Phil., Information and Communication Engineering

**Harbin Institute of Technology**, Harbin, China      **Sep. 2010 - June 2014**  
B. Eng., Electrical Engineering and Automation

## PUBLICATIONS

### Journal Papers

[Yan Z](#), Xiang X<sup>\*</sup>. Scene Flow Estimation: A Survey, *arXiv preprint arXiv:1612.02590*, 2016.

Xiang X<sup>\*</sup>, [Yan Z](#), Zhang L, et al. A System and Vision Localization Method for the Opening of Railway Oil Tank Wagon Based on Shape Matching, *IEEE Sensors Journal*, 2016.

### Conference Papers

Xiang X<sup>\*</sup>, [Yan Z](#), Nan C, et al. A modified joint trilateral filter based depth map refinement method, *Intelligent Control and Automation (WCICA)*, 2016, **Oral Presentation**.

## RESEARCH PROJECTS

**Intelligent Image Recognition System with UAV**      **Spring 2017**

- Achieving real-time automotive/pedestrian detection and tracking with RGB stream captured from a UAV
- Language: C++, OpenCV library
- Operating System: Window

**Intelligent Monitoring System for Gas Station**      **Spring 2016**

- In charge of the CVS(convenience store) monitoring part
- Achieve real-time pedestrian detection and tracking with RGB-D cameras
- Providing data of: <sup>1</sup>. Number of people entering and leaving CVS <sup>2</sup>. Queuing number at the checkout counter <sup>3</sup>. Queuing time for each customer
- Language: C++, OpenCV library
- Operating System: Window

## AWARD

Honorable mention, 2012 Mathematical Contest in Modeling (MCM)

## SKILLS

Python, C/C++, Matlab, HTML/CSS

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Xiang X<sup>\*</sup> is the advisor

SOCIAL WORK  
EXPERIENCE

Official photographer. International Cultural Industries Fair(ICIF), Shenzhen (2015, 2016)  
Chief director and manager. Graduate TV station of Harbin Institute of Technology (2013, 2014)