Xiao Xia

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EDUCATION

Beihang University **Beijing, China**
Master of Engineering in Electronic and Communication Engineering *March 2018*
GPA: 3.86/4.0

China Agricultural University **Beijing, China**
Bachelor of Engineering in Electronic and Information Engineering of Honors Program *July 2015*
GPA: 3.49/4.0 GPA (junior/senior): 3.74/4.0

- **TOEFL: 106** (R29 + L28 + S24 + W25) *September 2017*
- **GRE: 326** (V159 + Q167) + AW3.5 *April 2017*

PROJECT EXPERIENCE

Application of Deep Learning Theory in SAR Target Recognition **Beihang University**
Graduation Thesis *Oct. 2016 – Dec. 2017*

- Based on the multiplicative noise model of Synthetic Aperture Radar (SAR) imaging, used synthetic noise-corrupted SAR images to train a Convolutional Neural Network (CNN) for SAR image denoising. Utilized Python, MATLAB, and TensorFlow.
- Proposed a model combining CNN and Support Vector Machine for SAR target recognition. Achieved excellent recognition accuracy of 99.42% on the MSTAR database.

Mini Smart Greenhouse Based on Microcontroller Unit **China Agricultural University**
Science and Technology Innovation Project of Honors Program *Apr. 2014 – May. 2015*

- Designed the circuit to connect the STC89C516 Microcontroller Unit, numerous sensors and control equipment.
- Proposed an algorithm to detect and automatically control the environment factors in the greenhouse, including temperature, humidity and light intensity.
- Developed a WinForm application and a website in order to monitor and control the greenhouse through computer and the Internet respectively. Utilized C#, HTML, CSS, JavaScript and PHP.

Portable Beef Quality Classification System Based on DSP **China Agricultural University**
National Undergraduate Students' Science and Technology Innovation Project *Dec. 2013 – Nov. 2014*

- Used CCD vision sensor and TMS320DM642 Digital Signal Processor to develop a beef quality classification system.
- Based on a modified Otsu algorithm, segmented the rib-eye steak images and extracted the beef marbling to help the classification become 25% more accurate than traditional manual classification.

PUBLICATION

- Xiao XIA, Yunneng YUAN, *Combination of Multi-Scale Convolutional Networks and SVM for SAR ATR*, 2018 2nd IEEE Advanced Information Management, Communicates, Electronic and Automation Control Conference. (Accepted, EI index)

AWARDS

Scholarship for Excellent Graduate Student, *Beihang University* *2015 - 2017*
Scholarship for Academic Progress, *China Agricultural University* *2014*
Scholarship for Excellent Student, *China Agricultural University* *2014*
Honorable Mention, *2014 Mathematical Contest in Modeling* *2014*