Xiao Xia

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EDUCATION

Master of Engineering, Electronics and Communication Engineering

Degree expected 2018

Beihang University, Beijing, China

GPA: 89.6/100

Bachelor of Engineering, Electronic Information Engineering of Honors Program

2015

China Agricultural University, Beijing, China

GPA: 85.1/100, 3.49/4.0

TOEFL: 106 (R29 + L28 + S24 + W25)
 GRE: 326 (V159 + Q167) + AW3.5

09/2017

04/2017

RESEARCH EXPERIENCE

Application of Deep Learning Theory in SAR Target Recognition

10/2016 - Present

Graduation Project, Beihang University

- Proposed a model combining multi-scale convolutional networks and SVM for SAR target recognition.
 Achieved excellent experimental results with an average recognition accuracy of 99.42% on the MSTAR database.
- Utilized MATLAB, Python and Keras.

A Fast Algorithm Based on Two-Stage CFAR for Ship Detection in SAR Images

03/2016 - 07/2016

Research Assistant, Beihang University

- Proposed a modified detection algorithm based on two-stage CFAR. The first stage used global CFAR to
 find all possible targets, while the second stage used local CFAR to detect only the regions of interest,
 reducing amount of computation.
- Developed MATLAB program to implement the algorithm.

Space Target ISAR Imaging Simulation and Target Characteristics Analysis

10/2014 - 06/2015

Graduation Project, China Agricultural University & Beihang University

- Designed an ISAR imaging simulation system based on Range-Doppler algorithm. Analyzed characteristics of moving target's ISAR images through Joint Time-Frequency Analysis.
- Designed demonstration program with MATLAB GUI.

Portable Beef Quality Testing System Based on DSP

12/2013 - 11/2014

National College Students' Science and Technology Innovation Project, China Agricultural University

- Compared many methods of beef-marbling detection. Based on Otsu algorithm, used CCD vision sensor and TMS320DM642 to develop an evaluation system.
- Segmented the rib-eye beef images and extracted beef marbling to help the classification become 23% more accurate than manually classification.

Mini Smart Greenhouse Based on Microcontroller

04/2013 - 05/2014

Science and Technology Innovation Project of Honors Program, China Agricultural University

- Constructed a mini greenhouse model. Used STC89C516 to detect and control environment factors including temperature, humidity and light intensity.
- Built a WinForm application and developed a website in order to monitor and control the greenhouse through computer and the Internet respectively. Utilized C#, HTML, CSS, JavaScript and PHP.

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)

TEACHING EXPERIENCE

Undergraduate Course: Principle of Automatic Control

03/2016 - 07/2016

Teaching Assistant, Beihang University

- Led course discussions and assisted laboratory experiments.
- Summarized and answered students' questions.
- Corrected students' assignments and evaluated students' performances.

AWARDS & CERTIFICATIONS

The Second-Class Scholarship for Study, Beihang University	15 - 2017
Academic Progress Scholarship, China Agricultural University	2014
The Second-Class Scholarship for Study, China Agricultural University	2014
Honorable Mention, 2014 Mathematical Contest in Modeling	2014

SKILLS

- Platforms: Windows Operating Systems, Ubuntu Linux.
- Languages: MATLAB, Python, Keras, C++, C#, HTML, CSS, JavaScript, PHP.
- Applications: Microsoft Office, PyCharm, Visual Studio.