PENGYU YAN

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EDUCATION HISTORY

University of Electronic Science and Technology of China, UESTC *Sept 2014-Jul 2018*

Major: Electronic Science and Technology
GPA: 3.65/4.0 (84.6/100)
Core-courses GPA: 4.0/4.0 (89/100)
TOEFL: 99 (R27 L24 S23 W25)
GRE: 319 (V149+Q170+3.5)

Rutgers University, New Jersey, summer Program *July 2015-Aug 2015*

3D Printing, Package Engineering
Language program, PALS

RESEARCH EXPERIENCES

Research Projects (Prof. Ping Zhang) *July 2016-Present*

- Saliency Detection in 3D video based on Graphical Model
  - Designed a Multi-Scale architecture and upgraded SLIC algorithm
  - Exploited graphical model to refine the saliency maps
  - Adopted the guided filter to make the saliency map smoother
  - Submitted the paper to ICME2018
- Infrared Weak Target Detection based on Deep Learning
  - Used Convolutional Neural Network to process the feature of weak target
  - Edge box, region proposal method was adopted to help us recognize and classify target
  - A patent has been submitted in CN Patent office

Mathematical Competition (selected) (Prof. Mingqi Li) Oct 2015-Jun 2016

- Optimization Model of Design for Mooring Chain System
  - Analyzed the force situation of Chain and built the equilibrium force equations
  - Used Simulated Annealing algorithm and multi-object optimization to design the chain system
  - Won the 1st prize in CUMCM (national) and published a journal article
- Devices function examination based on Multi-target optimization
  - Definited the quality degree of devices and pre-process the large data of them
  - Ranked each kinds of devices based on Grey Relational Analysis
  - Won the 2nd prize in UESTC MCM

PUBLICATIONS & PATENTS

1. P. Zhang, **P. Yan**, J. Wu. Unsupervised Saliency Detection based on Multi-Scale Architecture and Graphical Model. *ICME*, Nov, 2018 (Submitted to *ICME2018*).
2. P. Zhang, J. Wang, **P. Yan**. An infrared weak target detection based on CNN. CN Patent office, App. Number: 201710758679.4.
3. **P. Yan**, C. Fan, F. Sun. Optimization Model of Design for Mooring Chain System. *Tianfu mathematics*, 2017, (23):63-66 (in Chineses).

AWARDS

1st Prize (Top 5%)	"Langchao" Enterprise scholarship (Only granted for two students)	Oct 2017
1st Prize	Contemporary Mathematical Contest in Modeling	*Sept 2016*
2nd Prize	2016 UESTC Mathematical Contest in Modeling	*Jul 2016*
Excellent Individual	PALS, Packaging Engineering, Rutgers	*Oct 2015*
1ST prize	The Third National Spoken English Competition (NSEC)	*Nov 2014*

ACTIVITIES

Freshman Mentor, School of Optoelectronic Information *Sept 2015-Jul 2016*
Minister of Public Relations Department, School Student Union *Apr 2015-Jul 2016*
Representative of the Party Branch in UESTC *Apr 2015-Jun 2015*
Class **Monitor** *Sept 2014-Jul 2015*