

# JIEKE SHI

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## EDUCATION & EXPERIENCE

**Chinese Academy of Sciences** • Institute of Computing Technology Beijing, China  
*NLP Research Assistant Intern* 2020.06-Present

- › Researched on text generation and analysis supervised by [Dr. Shi Wang](#)
- › Advanced a project that combines logic forms and tabular data to generate readable text, and submitted a paper.

**Yangzhou University** • School of Information Engineering Yangzhou, China  
*B.Eng., Electronic and Information Engineering* 2016.09-2020.06

- › Average Score 83/100, Top 10%.
- › Researched on Multi-agent Systems and published 6 papers supervised by [Prof. Junwu Zhu](#).
- › Honored as an outstanding graduate for excellent academic achievements.

**Fudan University** • Cooperative Information and Systems Lab Shanghai, China  
*CSCW & Social Computing Summer School* 2019.08

## PUBLICATIONS

### CONFERENCE:

- [1] [Jieke Shi](#), Junwu Zhu, Jian Li, Fang Liu, and Yunbo Lv. "An efficient double auction mechanism for job allocation." In 2019 IEEE 23rd international conference on computer supported cooperative work in design (CSCWD), pp. 63-68. IEEE, 2019. [\[PDF\]](#) [\[DOI\]](#)
- [2] [Jieke Shi](#), Zhou Yang, and Junwu Zhu. "An Auction-Based Task Allocation Algorithm in Heterogeneous Multi-Robot System." In 2nd EAI International Conference on Robotic Sensor Networks, pp. 149-156. Springer, Cham, 2020. [\[PDF\]](#) [\[DOI\]](#)

### JOURNAL:

- [1] [Jieke Shi](#), Zhou Yang, and Junwu Zhu. "An auction-based rescue task allocation approach for heterogeneous multi-robot system." *Multimedia Tools and Applications* 79, no. 21 (2020): 14529-14538. [\[PDF\]](#) [\[DOI\]](#)
- [2] Yi Jiang, Jinjin Wang, [Jieke Shi](#), Junwu Zhu, and Ling Teng. "Network-aware virtual machine migration based on gene aggregation genetic algorithm." *Mobile Networks and Applications* (2020): 1-12. [\[PDF\]](#) [\[DOI\]](#)
- [3] Junwu Zhu, [Jieke Shi](#), Zhou Yang, and Bin Li. "A real-time decentralized algorithm for task scheduling in multi-agent system with continuous damage." *Applied Soft Computing* 83 (2019): 105628. [\[PDF\]](#) [\[DOI\]](#)
- [4] Junwu Zhu, Ling Teng, Huimin Lu, [Jieke Shi](#), and Bin Li. "Ontology negotiation: Knowledge interchange between distributed ontologies through agent negotiation." *Concurrency and Computation: Practice and Experience*: e5406. [\[PDF\]](#) [\[DOI\]](#)

## RESEARCH PROJECTS

**Automated Negotiation and Game Mechanism of Multi-agent System in Semantic Web**  
*National Undergraduate Innovation and Entrepreneurship Project* 2016.09-2020.06  
*Project No.201811117029Z, Granted by Jiangsu Education Department, CNY \$10000*

- › For complex scenarios, i.e., post-disaster rescuing, designed efficient multi-agent system task allocation mechanisms and algorithms to achieve better resource planning effects.
- › Achieved good performance in some tasks of RCRSS, published 3 papers during this project.

## **DMA Partition Leakage Detection Platform Based on NB-IoT**

*Key Project of 'Challenge Cup' Academic Contest in Yangzhou University*

2016.09-2020.06

*Granted by Yangzhou University, CNY \$10000*

- › Designed and produced a hardware prototype based MSP430 chips and NB-IoT protocol, and a monitoring platform for pipeline network leakage detection.
- › Got the First Prize of the contest.

## **TECHNICAL SKILLS**

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**Programming:** Python, Java, C/C++, Matlab, etc.

**Tools:** SSH, Git, Tmux, PyTorch, Pandas, Matplotlib, Eclipse, MySQL, etc.

## **HONORS & AWARDS**

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### **HONORS AND SCHOLARSHIPS:**

- › 2020.06, *Outstanding Graduate*, Yangzhou University, China
- › 2019.11, *National Encouragement Scholarship*, Ministry of Education of the People's Republic of China
- › 2018.12, *The First Level President's Scholarship*, Yangzhou University, China
- › 2017.12, *The Second Level President's Scholarship*, Yangzhou University, China

### **CONTEST AWARDS:**

- › 2019.07, *Third Prize* of 14<sup>th</sup> National University Students' Intelligent Car Race  
Awarded by MOE of China and NXP Semiconductors
- › 2018.05, *Second Prize* of 8<sup>th</sup> Mathor Cup Challenge Contest in Mathematical Modeling  
Awarded by Chinese Society of Optimization, Overall Planning and Economic Mathematics
- › 2018.04, *Second Prize* of 9<sup>th</sup> Lanqiao Cup Programming Contest  
Awarded by Ministry of Industry and Information Technology of China

## **PROFESSIONAL ACTIVITIES**

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### **TALKS:**

- › *Game theory and Personality Traits in Task Scheduling Problem of Swarm Robot System*  
Invited talk, 9<sup>th</sup> Students Workshop between Yangzhou University and Kyushu Institute of Technology, Yangzhou, China, 2020.01.
- › *An Efficient Double Auction Mechanism for Job Allocation*  
Oral presentation, IEEE CSCWD, Porto, Portugal, 2019.05.
- › *An Auction-Based Task Allocation Algorithm in Heterogeneous Multi-Robot System*  
Oral presentation, EAI ROSENET, Kokura, Japan, 2018.08

### **MEMBERSHIPS:**

- › 2019-Present, Student Member of China Computer Federation (CCF)
- › 2019-Present, Student Member of ACM

### **TEACHING:**

- › 2019.03-2019.06, Student Mentor of Micro Innovation Contest, Yangzhou University, China