



## Gongpu Chen

Objective: Wireless Communication and Networking

June 28, 1995

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Nanjing, Jiangsu, China

### EDUCATION

**09/2016-Present** **Southeast University, Nanjing, China**

Master student in Control Science and Engineering, graduation expected in June, 2019.

**09/2012-06/2016** **University of Electronic Science and Technology of China (UESTC), Chengdu, China**

Bachelor in Automation Engineering, Overall GPA of 3.55/4.0.

### RESEARCH EXPERIENCE

**05/2018-Present** **Topic: Context-aware Resource Allocation in Remote Estimation Systems**

- Developing a context-aware scheme to allocate network resources according to the states of both remote estimator and wireless network.

**06/2017-04/2018** **Topic: Joint Scheduling and Channel Allocation in WirelessHART Networks**

- We proposed a tuple-based network model, based on which we formulated the problem of minimum end-to-end delay through joint scheduling and channel allocation as an integer program.
- We developed an effective heuristic algorithm to solve the problem.
- We provided a sufficient condition for the feasibility of the problem and the theoretical performance bound of the proposed algorithm.
- We extended the proposed algorithm to more general scenarios.

**01/2015-08/2015** **National College Students 'Freescale Cup' Intelligent Car Competition** **Provincial first prize**

- We made two intelligent cars with electromagnetic sensors to complete line-tracing tasks.
- We designed effective mechanical structure, hardware circuit and software to make our intelligent cars pass through various road conditions as soon as possible, with one chases the other without collision.
- I was responsible for control algorithm and embedded programming.

**06/2014-09/2014** **Sichuan College Students Electronic Design Competition 2014** **First prize**

- We made a quadrotor to accomplish the required missions.
- The work included designing hardware circuit and software, and I completed the work about sensors and control algorithm.

### OTHER EXPERIENCE

**04/2018-05/2018** **Volunteer of the 33<sup>rd</sup> Youth Academic Annual Conference of Chinese Association of Automation**

- The conference was hosted by our research lab, and I served as a volunteer from the preparation phase until the end of the conference.

**10/2014-10/2015** **Vice president of Association for Science and Technology, School of Automation, UESTC**

- We provided some training about electronic design for students.
- We hosted some electronic design competitions to help students to improve their hands-on ability.

**03/2014-04/2015** **President of Bosch Campus Club, UESTC**

- I was involved in establishing this club, and led the team to carry out some campus activities.

## PUBLICATIONS

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- [1] **G. Chen**, X. Cao, L. Liu, C. Sun and Y. Cheng, "Joint Scheduling and Channel Allocation for End-to-End Delay Minimization in Industrial WirelessHART Networks," *IEEE Internet of Things Journal*. doi: 10.1109/JIOT.2018.2875508, to appear.
- [2] **G. Chen**, R. Ma, M. Lei and X. Cao, "Channel List Selection Based on Quality Prediction in WirelessHART Networks", *Journal of Communications and Information Networks*, 2018, 3(3): 49-56.
- [3] **G. Chen**, X. Cao, C. Sun, "A survey on the security of cyber physical systems", *Journal of Nanjing University of Information Science & Technology*, 2017, 9(4): 372-380.

## HONORS&AWARDS

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10/2016: Graduate scholarship, first prize, Southeast University.

08/2015: The 10<sup>th</sup> National College Students 'Freescale Cup' Intelligent Car Competition, provincial first prize.

08/2014: Sichuan College Students Electronic Design Competition, first prize.

05/2013: School Speech Contest, winning prize, University of Electronic Science and Technology of China.

## SKILLS

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C, C++, Matlab.

Embedded programming.

## REFERENCES

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### Name: Xianghui Cao

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E-mail: [xhcao@seu.edu.cn](mailto:xhcao@seu.edu.cn)

### Name: Changyin Sun

Title: Professor, Southeast University, Nanjing, China

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