cse invites applications for all ranks of professor positions as well as postdoc fellows in the broad 4 research areas. For each category of the positions, applicants should send an application package with a cover letter, resume, statement of teaching, statement of research and a list of references (at least three) to the HR office of the College at wangjiaolong@zju.edu.cn (Mr. WANG Jiaolong).

Please include postal address, phone number and email address of each reference in the application package. This announcement remains effective until positions are filled. We will provide competitive packages and research facilities.

Contact

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College of Control Science and Engineering

Zhejiang University

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ZJU

College of Control Science and Engineering

In a Nutshell

CSE: MAKE IT SMART

The Chinese manufacturing industry is striving for better energy efficiency and environmental sustainability. To help the country accelerate this transition, the ZJU College of Control of Science and Engineering (CSE) is devoted to providing the technology and talent needed for developing smart manufacturing in China and accomplishing its mission of serving societal demands.

CSE supports the deep integration of artificial intelligence, information science and manufacturing technology. With more than 60 years of development, it has established a solid framework that links fundamental research, technology, standards, equipment, systems, applications and commercialization related to control science and engineering. Its technologies are now widely applied in China's paper and pulp, oil refinery, energy, steel, chemical engineering and bio-pharmaceutical industries, contributing significantly to national economic growth.

ZJU's Control Science and Engineering has been selected for the national "Double First-class Initiative" and graded as a national "A+" discipline, and in subject Automation & Control, it is ranked 19th in the ShanghaiRanking's Global Ranking of Academic Subjects 2020.

Zhejiang University: A Top 3 University in China

Located in the picturesque city of Hangzhou - the base for the e-commerce giant Alibaba as well as host of the G20 Summit 2016 & Asian Games 2022, Zhejiang University (ZJU) is one of China's top higher education institutions, as well as one of its oldest. For more than 123 years, it has never ceased its search for truth and pursuit of innovation.

CSE:Safeguarding Industry Nerve Centers

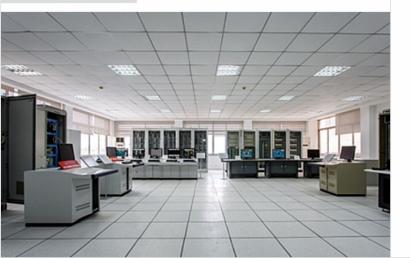


SUN Youxian

Control equipment and systems are like the brain and nerve center for industrial operations and drive advances in manufacturing processes, according to ZJU professor, SUN Youxian, Academician of the Chinese Academy of Engineering.

"We have the manufacturing equipment, but still lack the knowledge to control its operation.
We aim to change the situation by developing China's own high-quality automation systems."
— Said Sun.

One example is the application of automation in steel plants. Applying intelligent control and optimization, ZJU researchers upgraded the control system for top-pressure recovery turbine (TRT) units by improving the stability of blast furnace top pressure, the control of the turbine speed and the safety of TRT emergency stop control. Specifically, fluctuation of top pressure was controlled to within 1.5kPa, a fraction of the control systems imported from abroad. The setup for such a high-end TRT control system only takes five days, a record for the industry. This technological advancement saves energy, reduces emissions and brings costs down for China's iron and steel industries.



- Disciplines
 - ► Control Science and Engineering
 - Cyber Security
- Research Institutes
 - Institute of Industrial Process Control
 - ► Institute of Cyber-systems and Control
 - ► Institute of Smart Sensing and Measurement
- National Research
 Labs / Centres
- ► The State Key Lab of Industrial Control Technology
- ► The National Engineering Research Center of Industrial Automation
- The National Engineering Lab of Industrial Control System Security & Safety Technology
- The International Joint Research Center of Quality-targeted Process Optimization and Control
- 2 International Journals
 - Journal of Industrial and Management Optimization
 - ► IET Cyber- systems and Robotics
- Overseas Academician Joint Labs
 - ► Control and System Security
 - ► Intelligent Robotics
- **Major Achievements**

Various national honours, including a first-class National Science and Technology Progress Award and a National Technology Invention Award.

N umerous high-quality publications, including Handbook of Control Engineering (the most authoritative and complete books of control engineering nationally), multiple highly cited papers in *Automatica*, etc.

Development of China's first international standards for industrial automation: Ethernet for Plant Automation (EPA).

M ore than 40,000 high-quality plants and systems applied in industry.





Core Research Areas

Industrial Intelligence and Optimization Control

Industrial Big Data, Knowledge Automation, Large-scale System Optimization, Distributed Coordinated Control, Intelligent Manufacturing, Smart Factory, etc.

Robotics and Intelligent Unmanned Systems

Perception, Planning, Control, Coordination, Learning and Decision, etc.

Cyber Security and Safety for Industrial Control Systems

Cyber Security, Industrial Internet Security, Networking Security, Intrusion Detection and Evaluation, Security Protection and Defense, Fault Diagnosis and Health Management, Safety Management & Assessment, Industrial Safety & Security Protocol, Cryptography and Security Algorithms, etc.

Smart Sensing and Measurement

Intelligent Perception, Biology Perception, Intelligence Evaluation and Early Warning, Highly Adaptable Optical Detection, Highprecision Microfluidic Analysis, Micro-nano Detection Technology and Instrument, Quantum Perception, Quantum Computing and Measurement and Control, etc.



Jue Ying, a dog-like bionic quadruped robot capable of bounding, jumping, autonomous charging and self-localization & navigation, received wide media coverage including Xinhua News Agency

Gold Medal Winners with the

Congratulations of the Jury, 45th

& 46th International Exhibition

of Inventions Geneva





ZJUNlict Team, 2013, 2014, 2018 & 2019 World Champion, RoboCup – Small Size League

ZMART Team, 2018 Champion, International Aerial Robotics Competition





YONGON ZAMON, SHIBO HE, & JAMES CHEN

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Multiple Best Paper Awards at Major International Conferences