C Research

The Department of Electronic and Information Engineering is actively engaged in cutting-edge research in various topics in communications and artificial intelligence, e.g. wireless and optical communications, machine vision, machine learning, image processing.

Research Grants

- Fangni CHEN, Research on Self-Interference Cancellation of Full-Duplex MIMO System under Non-Ideal Condition, NSFC, 2017-2019
- Zhongpeng WANG, Theoretical Research on Transmission of Optical Compressive Sensing-Based OFDM Based on Orbital Angular Momentum, Natural Science Foundation of Zhejiang Province, 2017-2019
- Yun ZHAO, Rapid Detection and Migration Mechanism of Soil-Crop Heavy Metals Based on LIBS, NSFC, 2017-2019
- Wujie ZHOU, Research on Asymmetric Distortion Visual Quality Evaluation Model Based on Data Mining and Perception Analysis, NSFC, 2016-2018
- Ming-Wei WU, Design and Performance Analysis of Automatic Repeat Request with Channel Gain Monitoring, National Natural Science Foundation of China (NSFC), 2013-2016

Publications

- M.-W. Wu, T. Song, Y. Li, X. Du, and P. Kam, "On-off controlled wireless transmission via block-acceptance scheme based on measured channel gain – achievable diversity order," IEEE Wireless Communications Letters, vol. 8, no. 4, pp. 1175-1178, 2019.
- Z. Wang, and W. Qiu, "Secure image transmission over DFT-precoded OFDM-VLC systems based on Chebyshev chaos scrambling," Optics Communications, vol. 397, pp. 84-90, 2017.
- Y. Zhou, T. Liu, Y. Shi, et al, "Automated internal classification of beadless Chinese ZhuJi fleshwater pearls based on optical coherence tomography images," Scientific Reports, vol. 6, pp. 1-7, 2016.
- W. Zhou, L. Yu, W. Qiu, T. Luo, Z. Wang, and M. Wu, "Utilizing binocular vision to facilitate completely blind 3D image quality measurement," Signal Processing, vol. 129, pp. 130-136, 2016.
- D. Ge, and W. Zhou, "Discrimination of different myocardial infarction stages using wide band electrocardiogram," Biomedical Signal Processing and Control, vol. 25, pp. 143-149, 2016.
- Y. Zhao, X. Xu, and Y. He, "A novel hyperspectral feature-extraction algorithm based on waveform resolution for raisin classification," Applied Spectroscopy, vol. 69, no. 12, pp. 1442-1456, 2015.
- F. Chen, and Z. Wang, "A post-coding scheme for peak-to-average power ratio reduction in intensity modulated optical OFDM systems." Optoelectronics Letters, vol. 10, no. 4, pp. 295-298, 2014.
- M.-W. Wu and P. Kam, "ARQ with channel gain monitoring," IEEE Transactions on Communications, vol. 60, no. 11, pp. 3342-3352, 2012.

D Scholarships

Silk Road Scholarship-Chinese Government Scholarship
Full scholarship: Tuition; Free on-campus dormitory accommodation (double room); Monthly living allowance: RMB 2,500 per month; Comprehensive medical insurance

Chinese Government Scholarship
Full Scholarship: Tuition; Free on-campus dormitory accommodation(double room); Monthly living alowance; Comprehensive medical insurance

Confucius Institute Scholarship
Full Scholarship: Tuition; Free on-campus dormitory accommodation(double room); Monthly living alowance; Comprehensive medical insurance

Zhejiang Provincial Government Scholarship
Master's degree-RMB 30,000
Bachelor's degree-RMB 20,000
Advance Study Program-RMB 6,000

Outstanding New Students of ZUST
First place-100% of first year's tuition fee
Second place-70% of first year's tuition fee
Third place-50% of first year's tuition fee

Academic Scholarships
Excellent Degree Foreign Students Scholarship
Excellent Chinese Language Foreign Students Scholarship
Scholarship for HSK

Personalized Scholarships
Scholarship for Hard-Working
Scholarship for Innovate and Practice
Scholarship for Social Service
Scholarship for Arts and Sports Activities Excellence

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E Achievements

Scholarships


Certifications

Awards

F Cultural Activities





ZUST

International Student Affairs Center (ISAC), ZUST

Tel: 0086-571-8507-0141

Fax: 0086-571-8507-0141

Email: internationaloffice@126.com

Website: http://ies.zust.edu.cn/

Mailing address:

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Zhejiang University of Science and Technology,

No.318, Liuhe Road, Hangzhou, 310023, Zhejiang, P.R.China.

Communication Engineering (CE), ITEE, ZUST

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Contact Us

浙江科技学院
ZHEJIANG UNIVERSITY OF SCIENCE & TECHNOLOGY

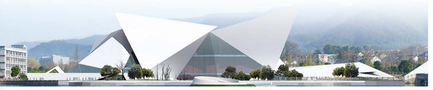
CE

Communication Engineering

- Internet of Things (IoT) Technology
- Artificial Intelligence (AI) Technology
- InfoCom Technology (ICT) Industry
- Electronic Information Discipline

Information for Prospective Students

A Profile of ZUST



Zhejiang University of Science and Technology (ZUST) is a multi-disciplinary full-time regular university under the direct guidance of Zhejiang Provincial Government. ZUST specializes in engineering with additional disciplines in arts, management, science, and economics.

ZUST has two campuses. Xiaoheshan Campus is in the city of Hangzhou, where the headquarter of **Alibaba Group** is located. The city is well-known for its booming **ICT industry**. Hangzhou is also the capital of Zhejiang Province, one of the most prosperous provinces in China. As one of the most beautiful cities in China, Hangzhou boasts various charming scenic spots, rich history and culture. Anji campus is situated in Anji county which won the United Nation Habitat Scroll of Honor Award.

ZUST has 14 schools and offers 56 undergraduate programs, 3 first-class disciplines with master's degree conferring right, 20 second-class disciplines with master's degree conferring right, 2 master's degree-conferring programs. At present, ZUST is running 12 English-taught undergraduate programs and 9 English-taught postgraduate programs. Meanwhile, ZUST provides a master's degree program of Teaching Chinese to Speakers of Other Languages (MTCSOL). ZUST is one of the top universities in Zhejiang province and has passed the Quality Accreditation on International Student Education by Ministry of Education.

ZUST has been designated as the pilot institution of Chinese-German cooperation in the area of application-orientated talent cultivation by the Ministry of Education. Up to now, ZUST has successfully established international relations with 125 universities in Germany, USA, Italy, UK, Australia, France, Japan, Korea, Holland, Belgium, Romania, etc. ZUST is still making strides in the development of international collaboration in the areas of faculty and student exchange, research and degree programs.

B Program

English-taught Bachelor Program

The Communication Engineering (CE) major in ZUST was established in 1980s and has developed rapidly to become one of the key construction majors of Zhejiang Province, China. We provide a diverse curriculum which instils in our students the imagination, talents, creativity, and skills necessary for the varied and rapidly changing demands of modern life. Our curriculum covers practical courses using official training materials for Huawei Certified ICT Associate-Routing & Switching and Alibaba Cloud Internet of Things (IoT) platform, preparing our students for a career in the ICT industry. We also offer Artificial Intelligence (AI)-related courses such as machine learning to prepare students for further studies in cutting-edge research areas.

Related English-taught Master Program

Offered by the same School of Information and Electronic Engineering (ITEE), Advanced Manufacturing and Informatization is an interdisciplinary discipline with mechanical engineering, computer science and technology, software engineering, and information and communication engineering.

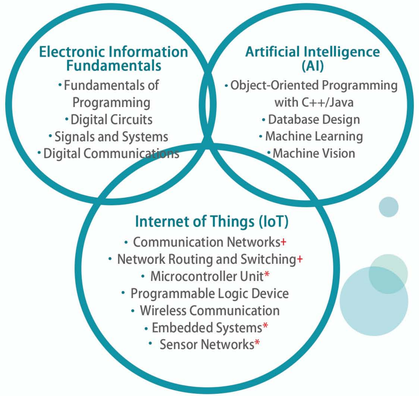
Career Prospects

At present, the ICT industry is in rapid development. All kinds of new information systems such as mobile internet, internet of things, vehicular networking, unmanned vehicle, unmanned aerial vehicles, smart phones and corresponding information services such as mobile payment emerge endlessly, which requires many communication engineering talents, maintaining an optimistic prospect of employment.

After four years of study in CE, approximately half of the graduates start a career in the industry, qualified as network engineers, hardware engineers, software engineers or project managers, who can go to the communications, electronics, information technology companies such as Alibaba, ZTE, Nokia, etc.

Other graduates continue to pursue postgraduate studies, in universities around China and overseas e.g. in Canada. Their excellent academic performance and extra-curriculum activity gives them an overwhelming advantage in scholarship applications. Many graduates proceed to pursue master's degree at our own ITEE school with familiar supervisors.

Main Courses



+Huawei Certified ICT Associate (HCIA) coursework
*Alibaba Cloud IoT platform
*Alibaba Cloud IoT technology lab at ZUST

Related Companies

ZTE中兴 · 阿里云 · 物联网 · HUAWEI · alhua · NOKIA 上海贝尔 · 杭州地铁 · 东信 EASTCOM · 海康威视 HIKVISION · 中控·SUPCON · 杭州讯牛科技有限公司 · HUNDSUN · 中国通信服务浙江工程公司

Related Universities

Strong Academic Team

The Department of Electronic Engineering has over thirty academic staff with rich industry and research experience. Ten have Ph. D degrees from world-renowned universities, and seven have long-term overseas teaching or working experience in English.

Dr. Fangni CHEN, Lecturer. Her research focuses on wireless communication, key technologies in 5G mobile communication system. In 2012 she worked in University of California, Riverside as a visiting scholar.

Dr. Liang CHI received the Ph. D degree from the University of Nebraska Lincoln. He has worked in the patent lawyer office as a specialist and acted as 5G standard represent for Shanghai Bell-Alcatel-Lucent Company. Now he focusses on the LTE physical layer study.

Zhaodi GUO, Associate Professor. Courses taught: C Programming, Signals and Systems, Digital Electronic Technology, C++ Program, Digital Image Processing.

Xi' Ang LIU, Lecturer. His research covers equipment maintenance of communication system, software development based on android system. He once participated in the communication system construction of China mobile communication.

Qiwen SONG, Engineer. His work mainly includes information security technology research and certified network engineer training. He has more than eight years work experience in military research institute.

Hongwei TAO, Lecturer. His research covers the design of electronic circuits, electromagnetic components, and application software development. He is also an experienced engineer and successfully designed many industrial products.

Xinhua WANG, Associate Professor. His research covers application design of communication system and IoT system based on embedded microcontroller, FPGA, RF circuits and so on. He once worked as a development engineer in HUAWEI.

Dr. Zhongpeng WANG, Associate Professor.
Ph. D from Beijing University of Posts and Telecommunications.
Optical OFDM, visible light communication and MIMO wireless communication.

Dr. Ming-Wei WU, Professor. Received B. Eng, M. Eng and Ph. D from National University of Singapore. She has work experience in network standardization and research experience in wireless communications in Singapore. She teaches digital communications and networking.

Linpeng YE, Engineer. His research covers application design of communication system based on embedded Microcontroller, FPGA, RF circuits and so on. The major courses he teaches include Microcontroller, EDA, Programmable Logic Device and so on.

Zheng ZHANG, Lecturer. His research covers communication circuit design based on microcontroller, FPGA, RF chips and so on. The major courses he teaches include circuit theory, analog circuit, digital circuit, microcontroller and so on.

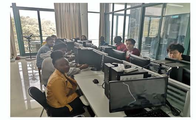
Dr. Yang ZHOU. His research focuses on spectroscopy analysis, oct image processing, computer vision and machine learning for agricultural applications. He has more than one-year work experience in Duke University, USA.

Enrollment Advantage

A new IoT technology lab is newly founded with Alibaba Cloud IoT technologies. The equipment uses communication technologies ranging from WiFi, GPRS, Bluetooth to ZigBee, NB-IoT and LoRa. Alibaba Cloud IoT platform allows easy web, mobile and device application development, and provides stable communication between devices and the IoT Platform. Typical application scenarios include bicycle sharing, energy monitoring, smart cities and smart classrooms.

The ICT integration center of production and education was established in 2018 with a total investment of over ten million CNY, including a LTE Mobile Communication Lab, a Cloud Communication Lab, a Data Communication Lab and a PTN Network Communication Lab.

Students are assigned their personal mentors to guide in course selection, to suggest career path, to provide additional resources and laboratory access, to supervise after-class hands-on projects and competitions, to arrange on-campus part-time positions and industry internship opportunities. Our graduates have achieved excellent GPA performance and numerous competition awards, scholarships and honors.



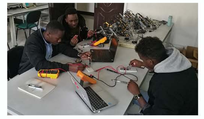


Photo Gallery