

航空航天学院 空天科学技术研究院

School of Aeronautics and Astronautics
Institute of Astronautics & Aeronautics



Introduction

Focus on aeronautics & astronautics Engineering

Expand space information technology application

Develop advanced research and development projects

Offer postgraduates extensive selection of research projects

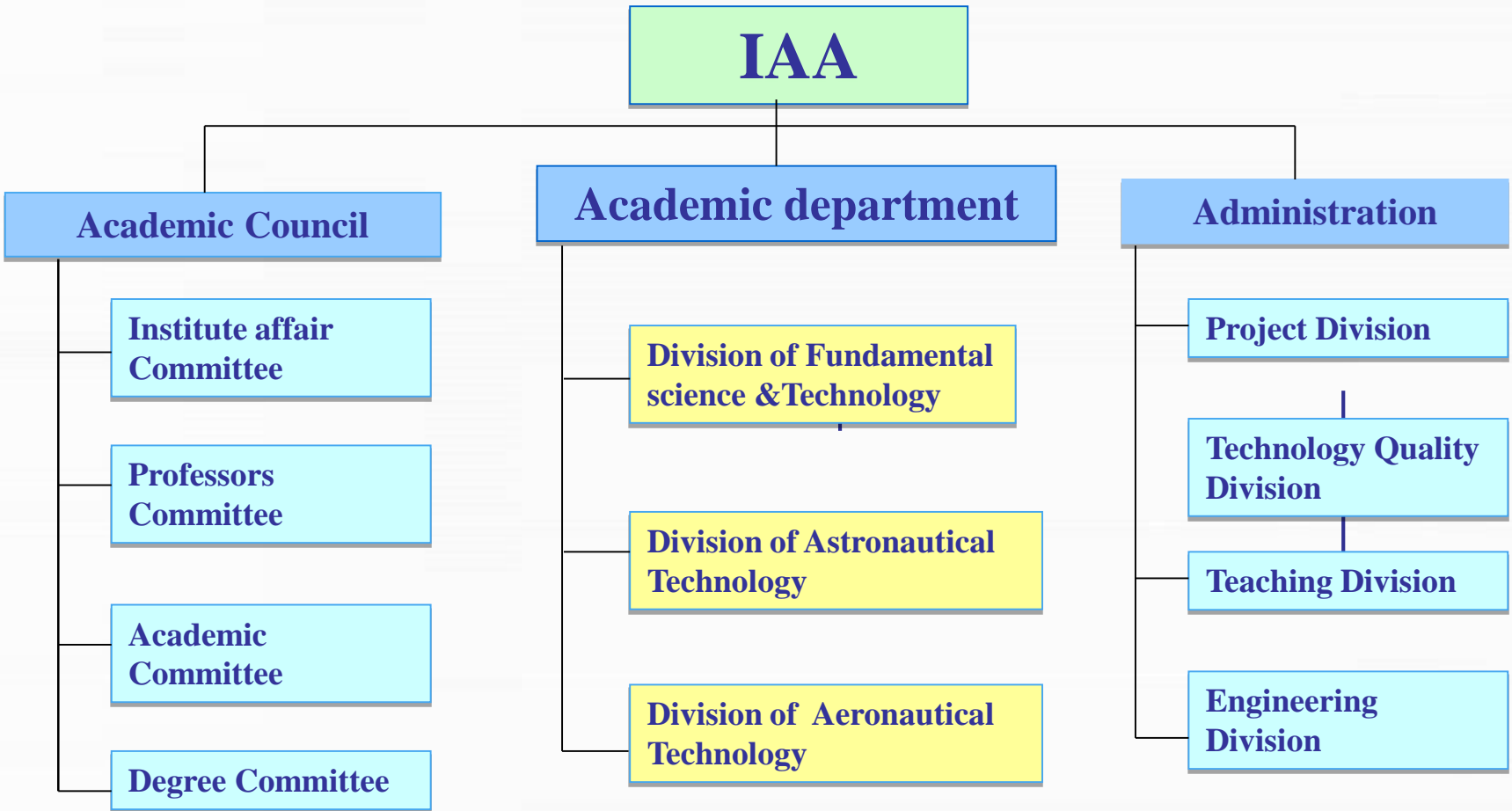
July, 2006 Institute of Astronautics & Aeronautics

May, 2012 School of Aeronautics and Astronautics

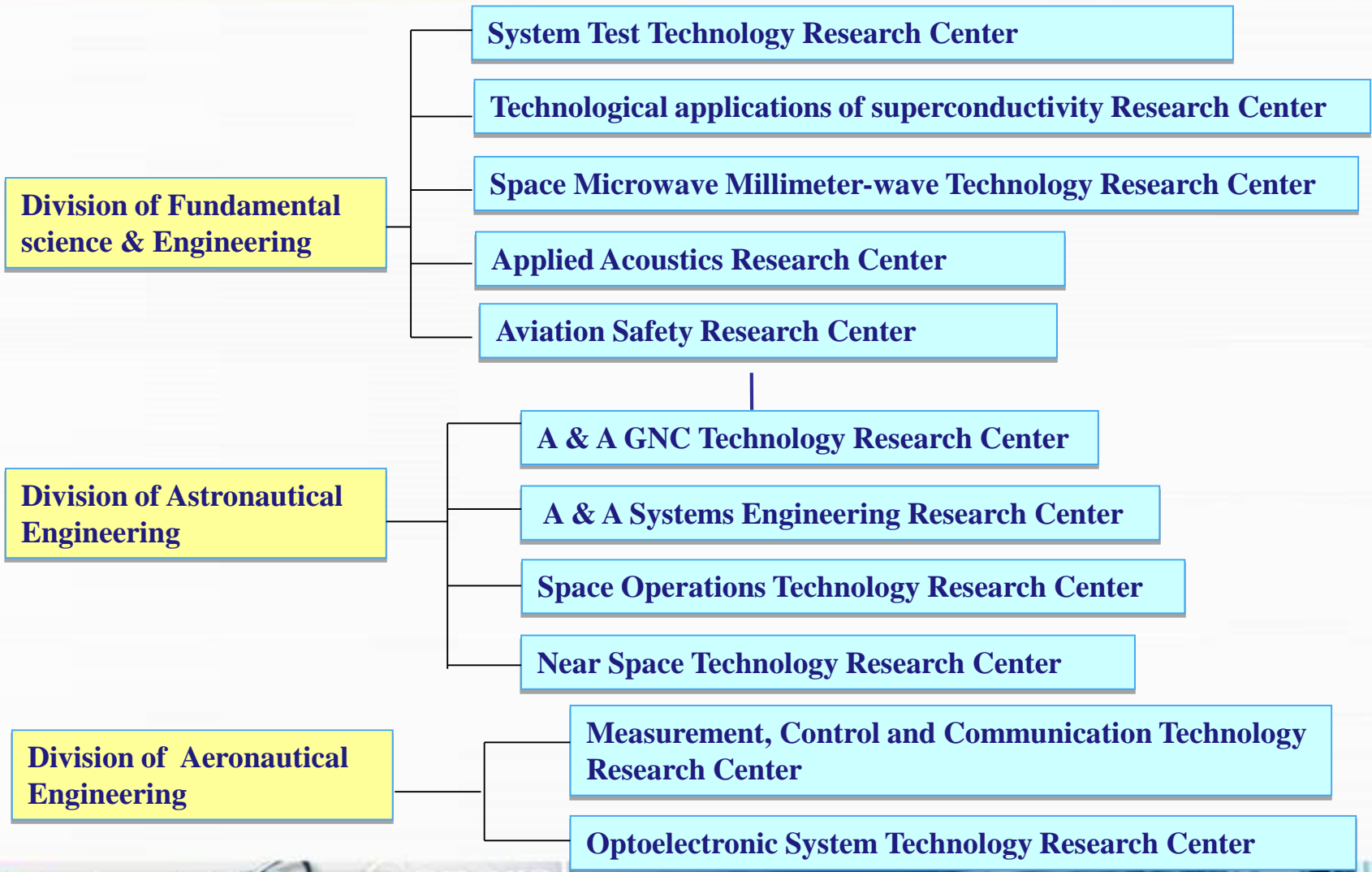
We have more than 80 faculty members, providing expertise in aeronautics and astronautics engineering.



Organization



Organization



Postgraduate

Systems Engineering

**Space Information
Engineering**

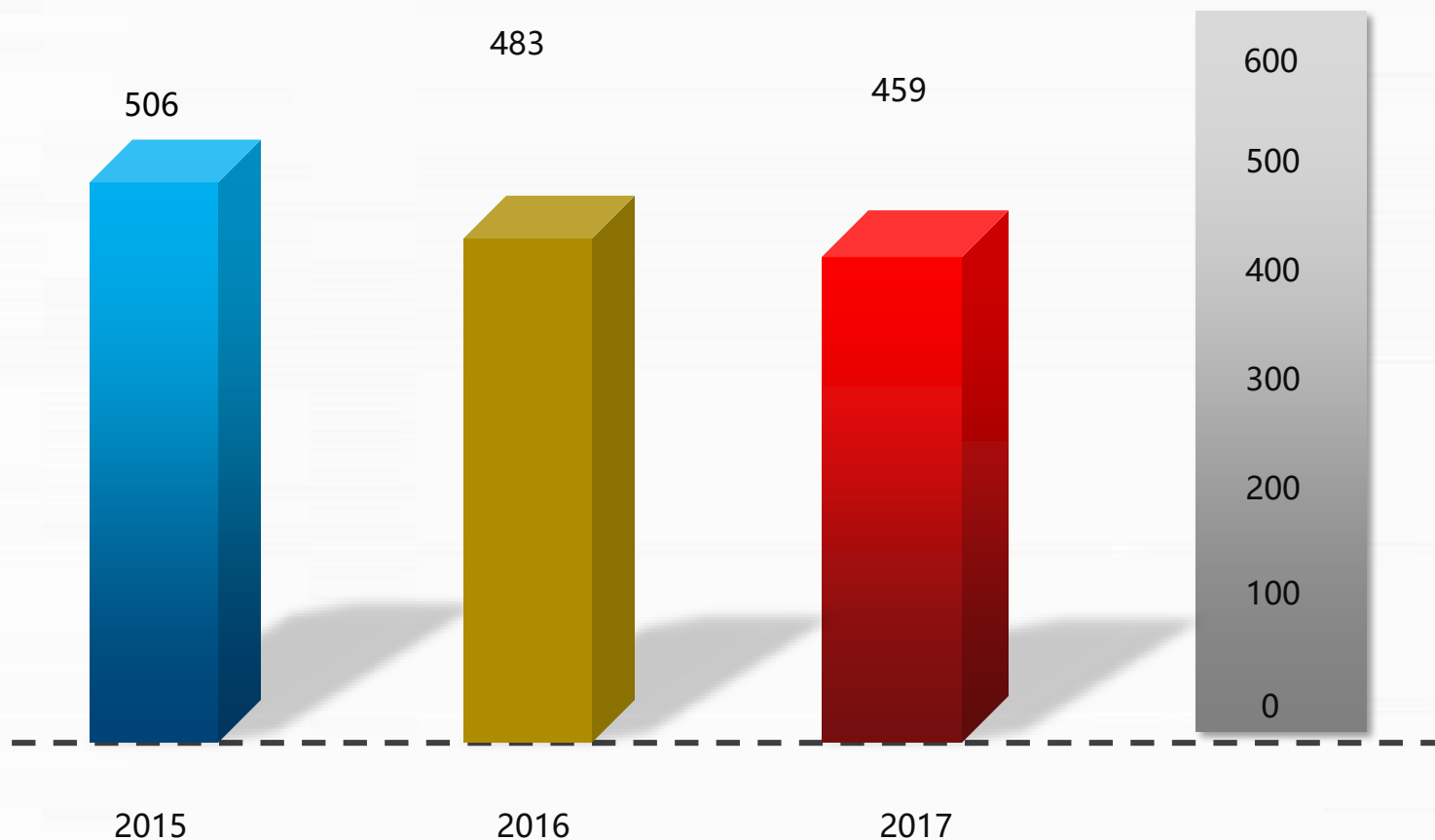
**Navigation, Guidance and
Control**

Space Control Engineering

**ME , Ph.D , part-time ME
Control Engineering and
science**

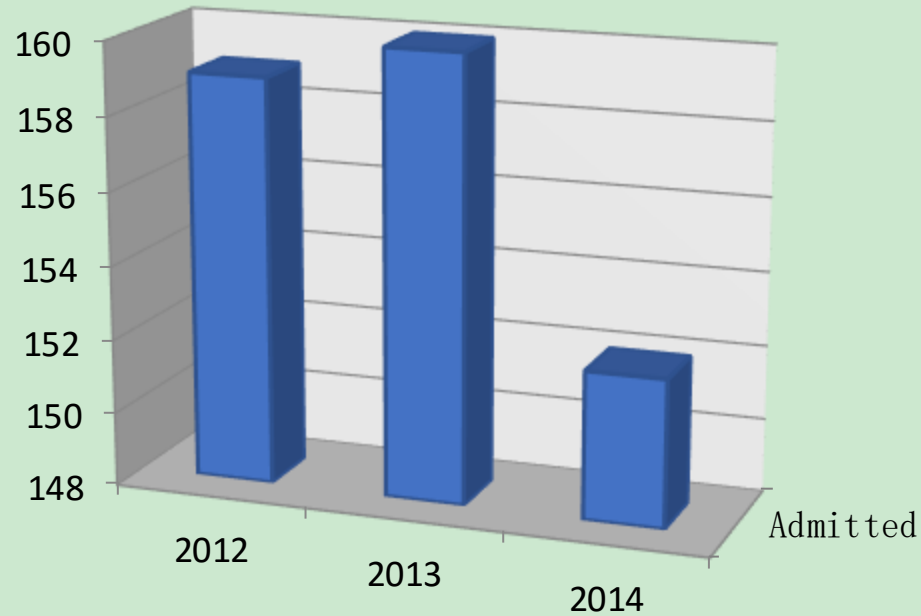


Students studied in Recent 3 Years(Master & Ph.D)

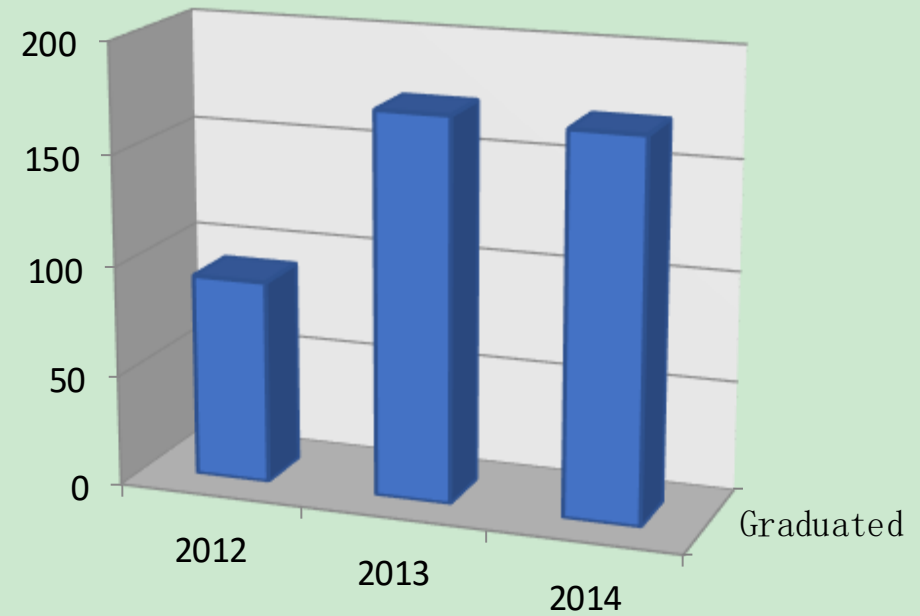


Students Admitted & Graduated in Recent 3 Years(Master & Ph.D)

Admitted



Graduated



Undergraduate

**Space Information
Technology**

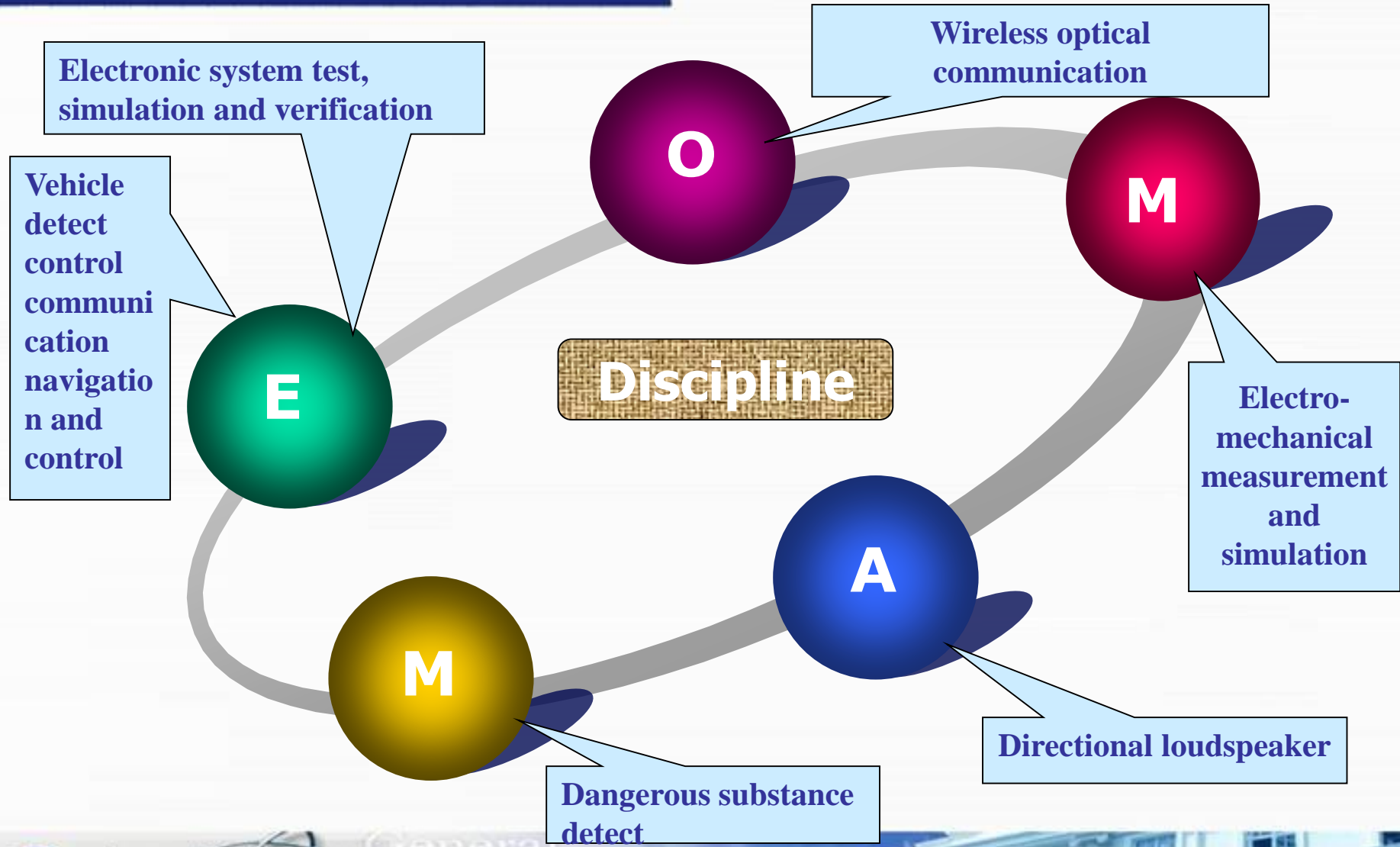
Navigation and Guidance

**Flight Mechanics and
Control**

**Bachelor
Navigation, Guidance
and Control**



Discipline construction



Platform construction

Space Information System Simulation Testing and Verification

Space-earth integration measurement ,control and communication technology, and space effective payload system technology
To serve overall design of manned space flight by using Simulation Testing and Verification Technology.

Near space Flight Technology

Aircraft navigation, measurement and control communication, space effective payload and flight testing validation



Platform construction

Novel Civil Aviation Technology

Air traffic management, modern aviation data communications technology, navigation technology, aerial surveillance electromagnetic spectrum management, information interconnect for military and civil aviation.

Man-machine intelligent system

Support the bodies and make the arthropod animals having the various shapes, protect the important organs, assist and enhance the movement ability, medium fro perception of environment



Joint Labs and Research Centers

	Name of the labs	Cooperative agency
Domestic	Joint Lab for near Space Technology	CNAC Chengdu Aircraft Design Institute
	Joint Lab for Space Communication Technology	Xi'an Branch of China Academy of Space Technology
	Pinpoint Navigation and Guidance Engineering Center	Seventh Research Institute of China Aerospace Science and Technology Group
International	Joint Lab for Semiconductor Manufacture and Industry Engineering	Intel Corporation
	Joint Lab for Intelligent Mechatronic Control	Microchip Technology Co. USA
	International Joint Lab for Remote Control Robot	University of Electro-Communications, Tokyo, Japan



Research in engineering field

Astronautics

Manned space flight Novel system of measuring and control communications, simulation testing and certification , and aerospace grade components.

Aeronautics

Unmanned space flight Simulation test verification, integrated measuring communications and flight control , integrated effective payload, and near space aircraft.

Civil aviation

Aviation safety technology Low-altitude air traffic control communication, navigation, surveillance technology, and aviation security detection.



Research focus

Aerospace Vehicle Digital Simulation & Fault Diagnosis

Astronautics and Aeronautic Electronic System Simulation Testing and Verification

Vibration Analysis & Noise Detection and Control



Astronautics and Aeronautic Optoelectronic System

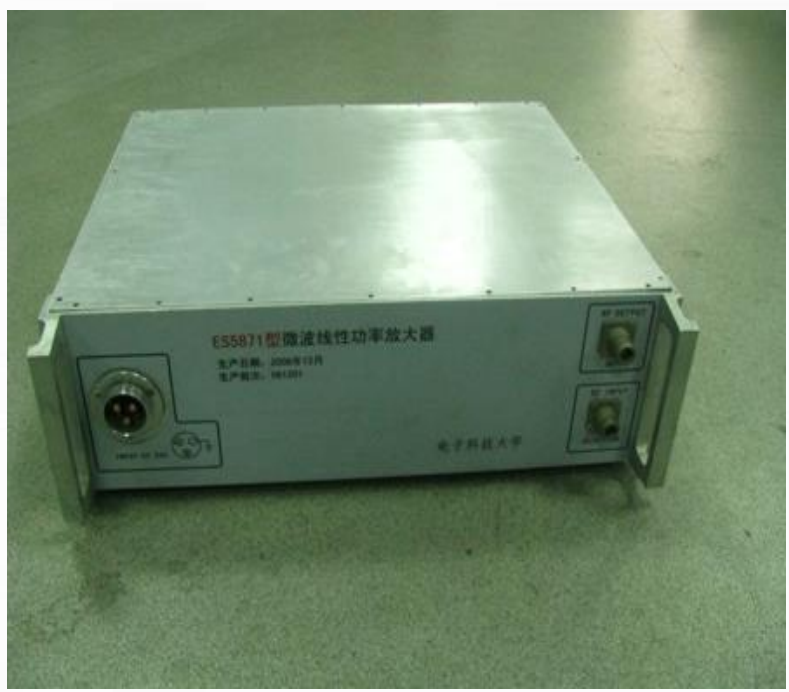
Astronautics and Aeronautic Component & its Application

Aerospace Vehicle Measurement and Control Communication, Navigation Control

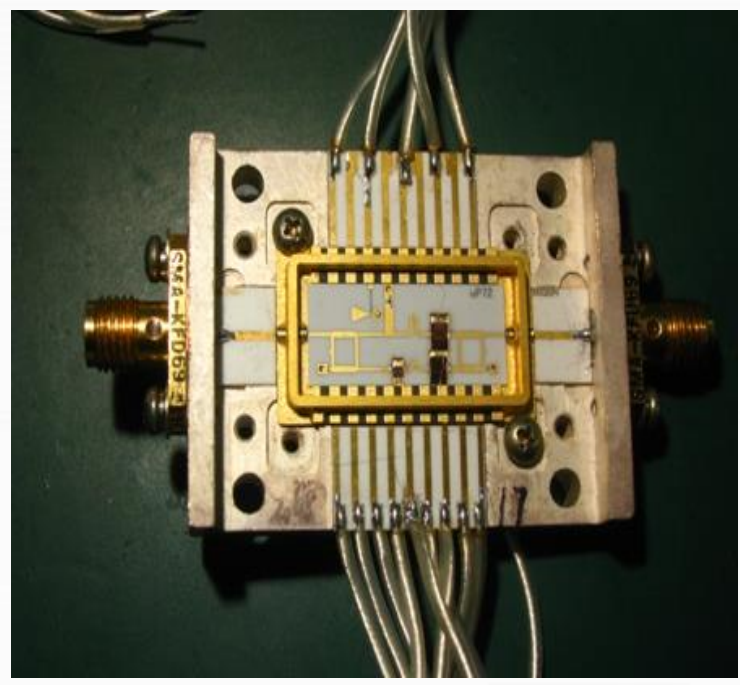


Research achievement

1、 Electronic parts and components



Linear high efficiency amplifier

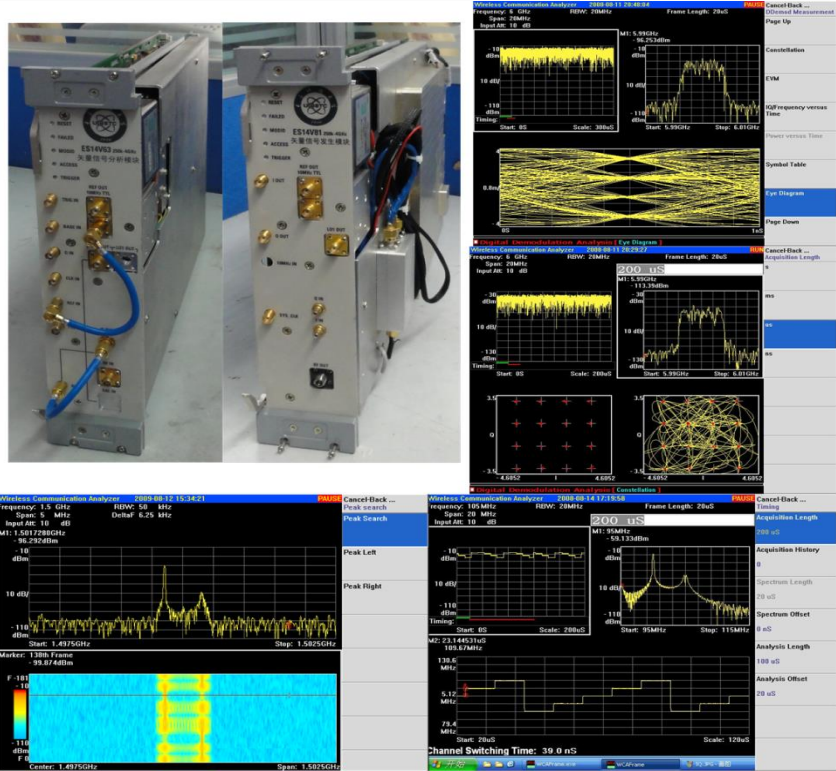


Space traveling wave tube



Research achievement

2、 Wireless broadband test equipment

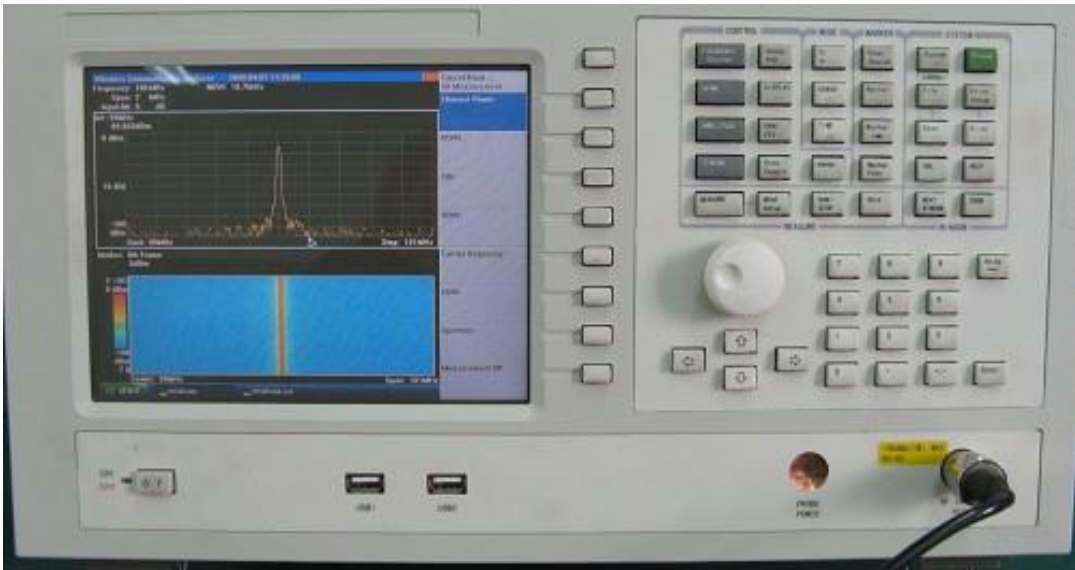


RF spectrum analysis module

vector signal generator module



Research achievement

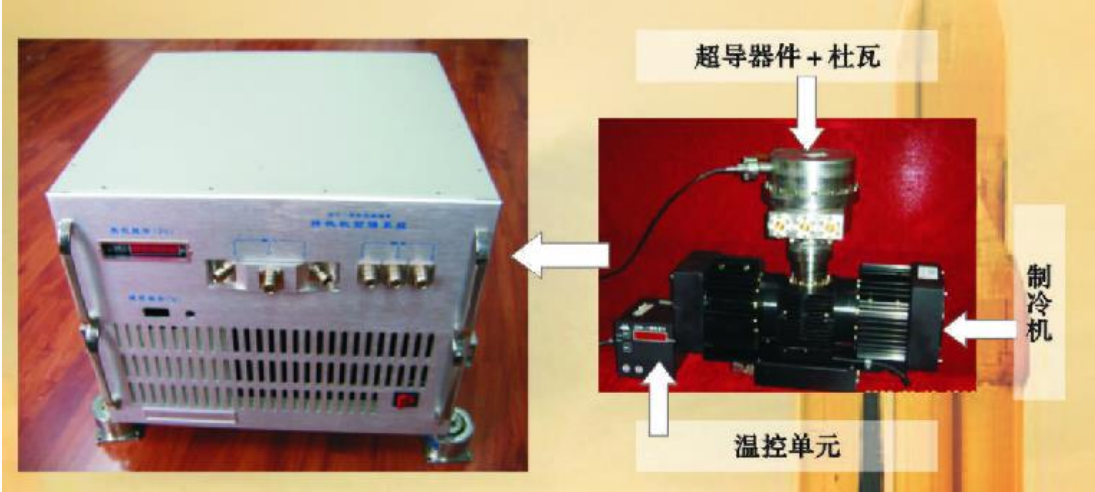


Radio Communication Analyzer

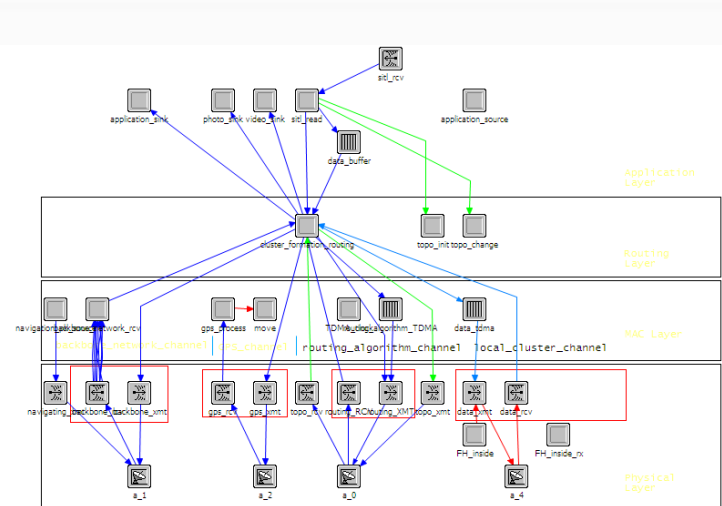


Research achievement

3、 Space communication equipment



3-channel high-sensitivity, high-temperature superconductivity, anti-jamming receiver system



Communication network simulation system

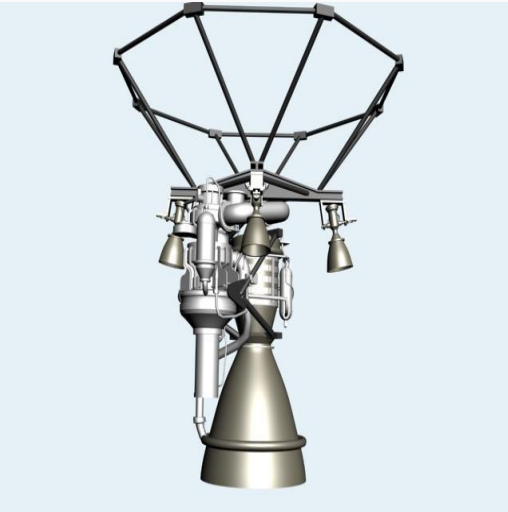
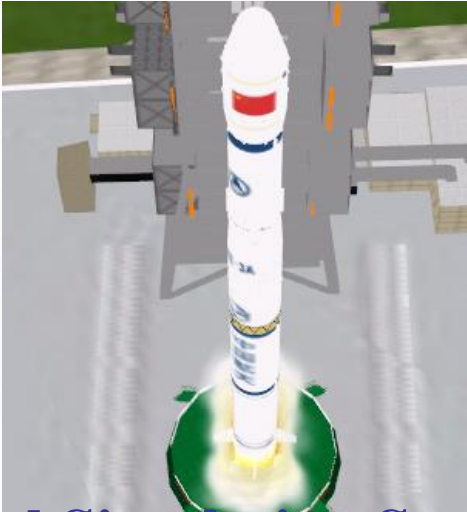


Research achievement

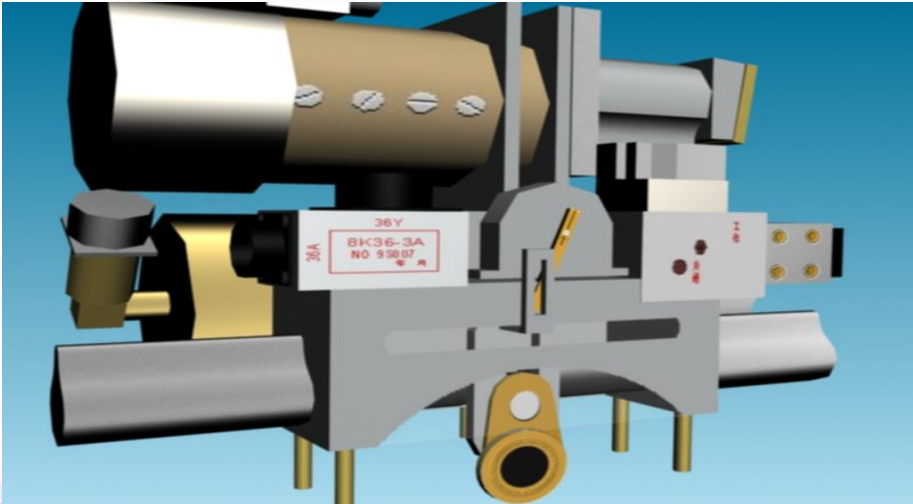
Lithium battery electrochemical test system



Research achievement



Launch Vehicle Visual Simulation System



Research achievement

4、 Directional Loudspeaker

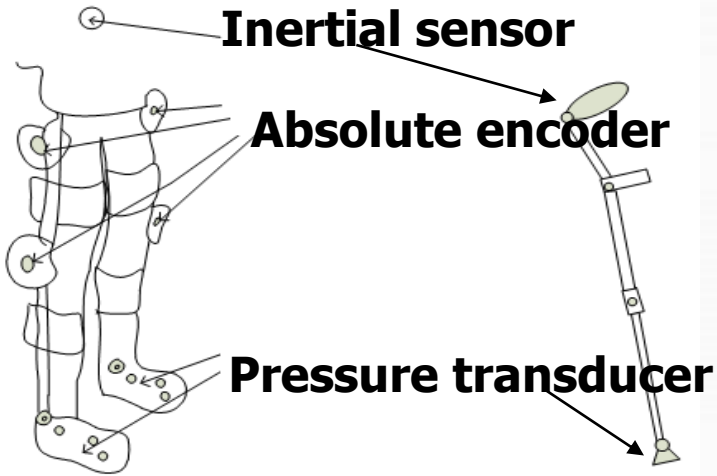


Audio near-distance directional loudspeaker for portable multimedia devices



High power directional loudspeaker

Human lower extremity exoskeleton robot

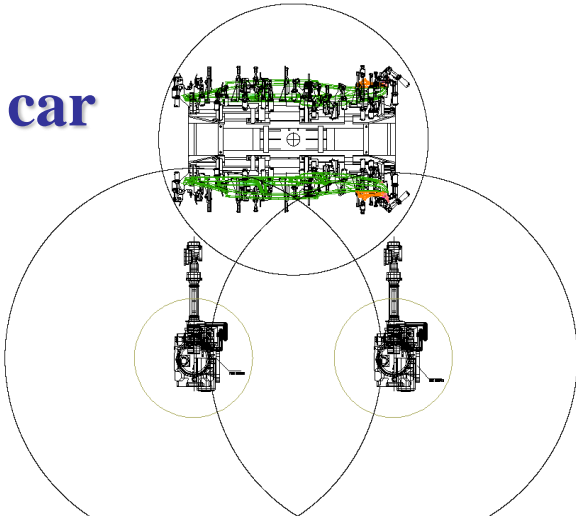
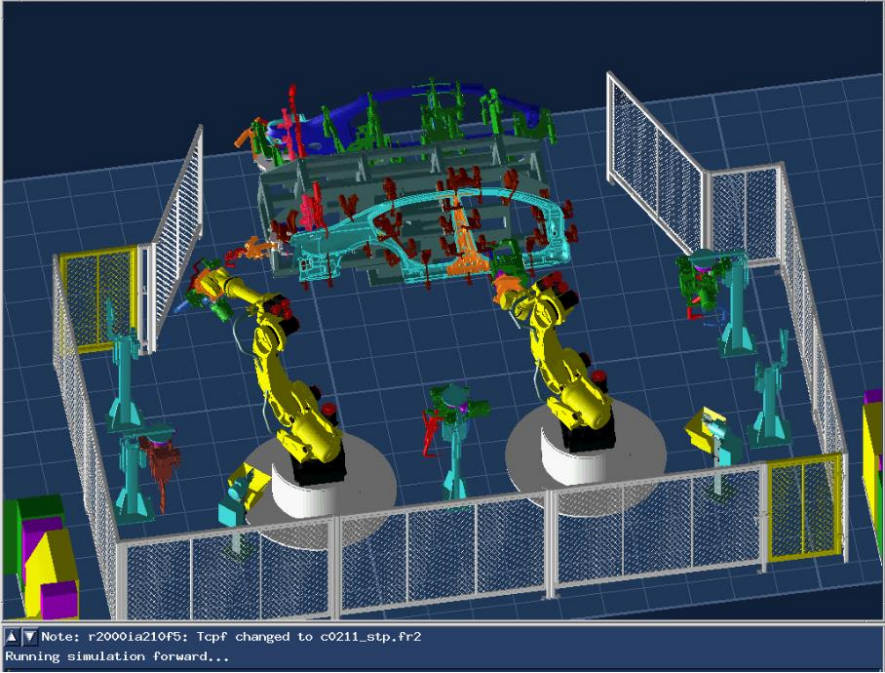


thighs, lower leg, feet and hip joint, knee joint and ankle joint.

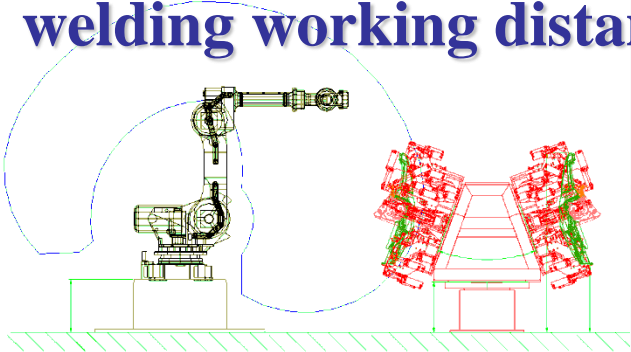


Research achievement

Multi-robot alternate welding side car based on virtual manufacturing



Multi-robot alternate welding working distance

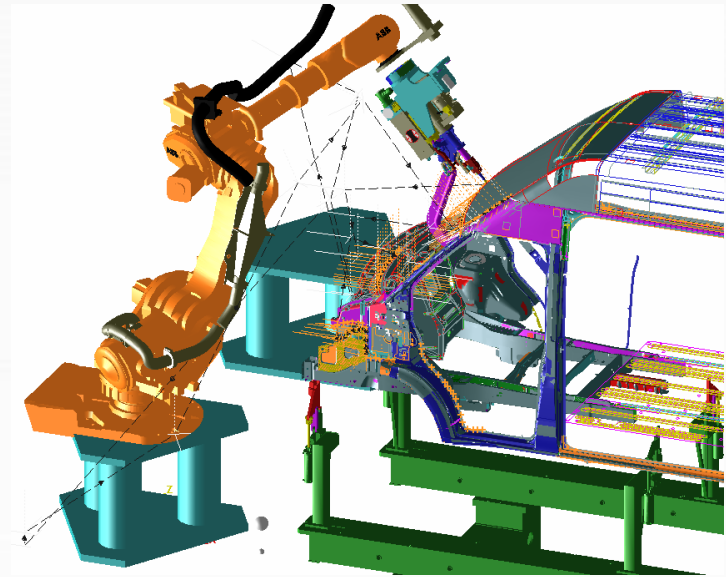
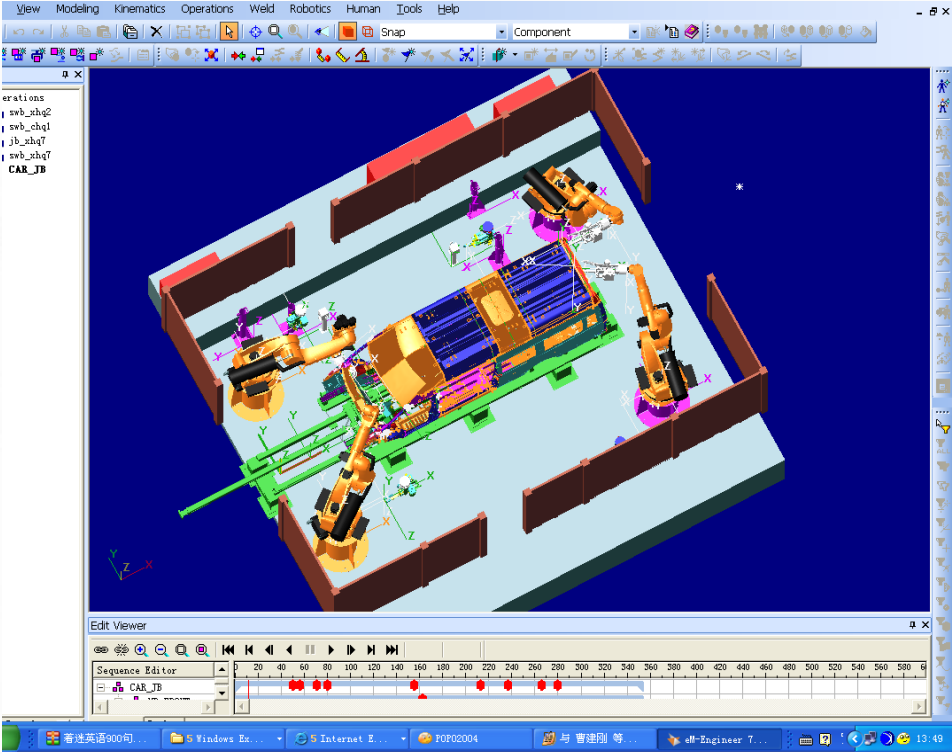


Lateral



Research achievement

Multi-robot working station in Body-in-white assembly

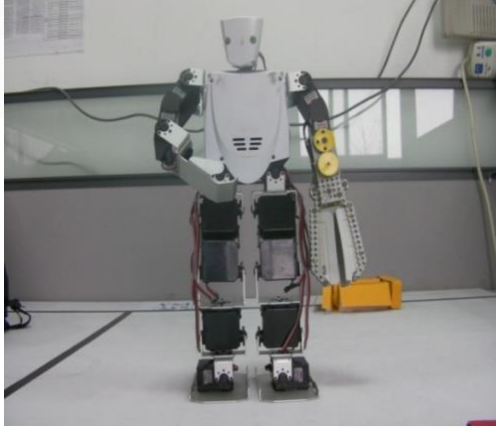
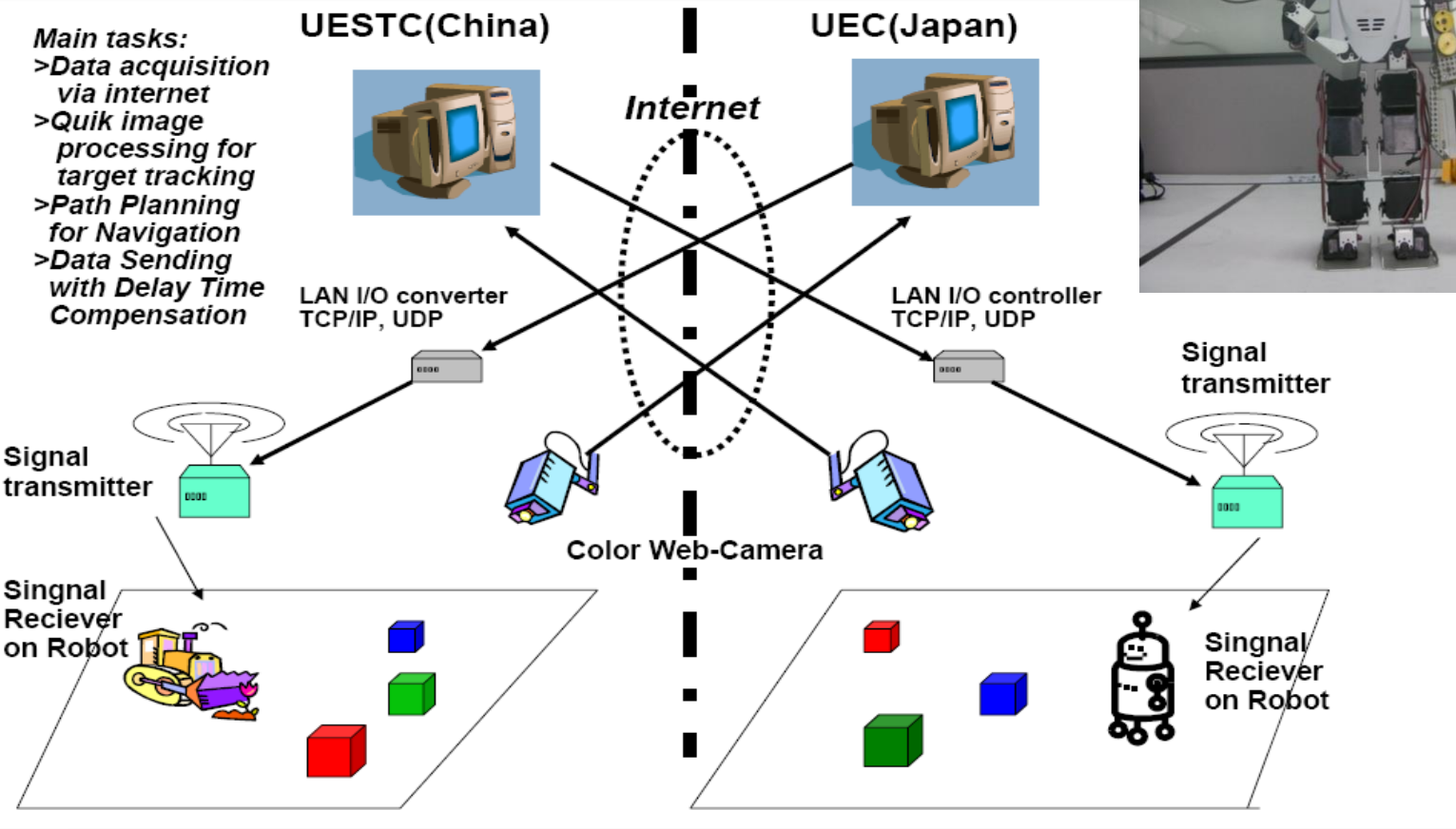


Motion trajectory planning of welding robot



Research achievement

TCP/IP remote robot control



Thank You !



电子科技大学
University of Electronic Science and Technology of China

General
Information

