

## NEWSLETTER

# SUT Rector & Delegation visited China in Shanghai-Jinan-Beijing (10-16 June 2024) for Robotics, Automation and Smart Hospital

SUT rector and delegation, Assoc. Prof. Dr. Yupaporn Ruksakulpiwat, Vice Rector of Academic Affairs and Quality Assurance, and Dr. Permsiri Lermanuworarat, M.D, Director of Suranaree University of Technology Hospital, teamed up with Origgin-Singapore and Tiger Academy for academic collaboration in robotics, automation and smart hospital in Shanghai-Jinan-Beijing, China.



## SMART HOSPITAL (智慧医院)

Visiting Zhongshan Hospital affiliated to Fudan University

Assoc. Prof. Dr. Anan Tongraar, SUT rector and delegation visited Zhongshan Hospital in Shanghai

The first visit was to Zhongshan Hospital, which is one of the top radiography treatments in China at Zhongshan Hospital, which was founded in 1937 in commemoration of Dr. Sun Yat-sen. The Department of Radiotherapy founded in 1996, now serving more than 700 MRI cases a day using 12 MRIs coupled with AI platform. The patients spend only about 5 minutes for imaging. This substantially supports the doctors to improve the diagnosis and treatment.



## Shanghai United Imaging Healthcare Co., Ltd (Headquarter) High-End Medical Equipment and Intelligent Solutions

The company is one of the leading healthcare innovation that provides, develops and produces high performance advanced medical imaging, radiotherapy equipment, life science instruments and offers intelligent digital solutions. These are Molecular Imaging (MI), Magnetic Resonance Imaging (MRI), Computed Tomography (CT), Digital Radiography (DR), and Radiotherapy System.

The new total-body PET imaging developed by the United Imaging healthcare Co., Ltd. has shed light on the pathological mechanism and immune response to COVID-19 infection.



## Shanghai TMiRob Co., Ltd



### TMiRob Intelligent Solutions for Medical Infrastructure

Shanghai TMiRob Co., Ltd is a top high-end medical service robot company in China, having nearly 10 kinds of medical service robots, which have been researched, developed, and produced currently. SUT delegation truly admired the new era of medical infrastructure and hopefully to embrace the medical intelligence in the near future at SUTH.

## Visiting Shanghai Gwell Medical Technologies Co., Ltd. for Hospital Logistics Robotic Solutions in Shanghai



The company defines the logistics needs of different hospital scenarios to match suitable robot models, giving full-scenario automatic hospital supplies. The three core technologies of 5G, artificial intelligence (AI) and driverless vehicles, emphasis "dynamic object recognition", "intelligent dispatch" and "intelligent IoT" in the hospital.





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## 创业孵化服务

### Visiting COCOSpace, Shanghai

Assoc. Prof. Dr. Anan Tongraar, SUT rector and delegation visited CEO Mr. Alex Wei at COCOSpace, Shanghai



Cocospace is a well-known as the Chinese scientific and technology innovation, offering office workspace and incubation services for startup. It has incubated a huge number of great start-up firms since 2015. This is to promote innovation, boost entrepreneurship, cultivate future business leaders, and assist young people in realizing their entrepreneurial dreams and life values, following the business philosophy of "base + fund" and "investment + incubation". Acceleration is possible to create a diverse and efficient scientific community with the help of Enterprise Nebula.



SUT delegation have received very warm welcome and hospitality of COCOSpace and embrace philosophy to step up to social enterprise in the near future.

### Shanghai Renwei Electronics Technology Co., Ltd for Healthcare Digital Services

In Shanghai, smart city is not just the concept but is possible via IOT in which wearable devices are available for tracking movement after hospital leavel, dianosis data collection, environment sensors, giving 30-40% energy saver. Three districts in Shanghai are the world first connected by bluetooth without mobile data. Hospital, campus, museum, residential area, and government centers are effectively connected. Integrated wifi+ blue tooth make intelligent hospital possible to oversee the service from the system and be able to solve problem quickly at specific area.

### PALMap Intelligent Technology (Shanghai) Co., Ltd for Smart Healthcare Solutions



Smart hospital is still the topic of collaboration where AI platform is becoming more approachable for doctors and nurses to assess important patients' information. Mr. Zhang Yang, PALMap CEO, has briefed the smart healthcare solutions to our SUT delegation and a gallery walk for device innovation.



### Huiying Medical Technology (Beijing) Co., Ltd. in Beijing for AI Imaging and Smart Healthcare

Dr. Turing® Medical AI Solution has been developed by Huiying Medical Technology (Beijing) Co. Ltd. to transform "informatization" to "intelligentization" by AI-assisted diagnosis to reconstruct the man-machine interaction. Multi-diseases AI solution. This make it possible for chest, bone fracture, vascular and other parts dianosis and help to improve efficiency and accuracy for clinicians and radiologists. The AI solution could also help to generate report and research paper.



## 智慧医院

Center for International Affairs (CIA)  
Suranaree University of Technology





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## Robotics and Automation



**Visiting Robotphoenix for Industrial Automation Robotic And Visual System in Jinan, Shandong, China**

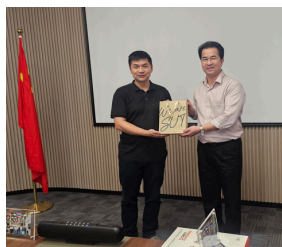
**Assoc. Prof. Dr. Anan Tongraar, SUT rector and delegation explored the history and robotic production**

We received a very heartfelt welcome from Mr. Zhang Sai, CEO and Robotphoenix team with development, production and test lines. The lightweight industrial robots possessing high-speed characteristics, with light-load cooperative operating system, and integrated with core automation and robotics technologies like vision module, control system and multi-machine cooperation. These include delta parallel robots, SCARA robots, small 6-axis robots, coordinate robots, AGV robots, wafer handling robots, robot controllers, vision systems, etc.



Collaboration talk between SUT and Robotphoenix led to academic & student exchange program onsite both in plant & SUT based. This also included the initiative student hackathon in robotics & automation area to give a fruitful robotic training for academy for the future.

Dormitory is also welcome for students participating the program just a 10 minute walk to the plant.



**Chuanggu (Shandong) Education Technology Co., Ltd.**  
**for Programme Collaboration in Engineering, Shandong, China**



# 山东



With huge population and high demand of higher education in Shandong, the initiation on 2+2 program between SUT and Chuanggu (Shandong) Education Technology Co., Ltd. has been under development in reaching out the high vocational students to study at SUT in order to achieve a Bachelor's degree. Especially in Mechatronics program, hands-on activities, concise module course learning with industrial based project allows higher education to be more practical and directly related to job required by industries.

Other programs and activities have also caught attention such as international camps, student exchanges and so on. More collaborations are to be strongly continued from both sides to develop borderless education.

机电一体化项目



小镇的夜晚灯光