



2025年华东师范大学国际优秀中学生 智能机器人夏令营

2025 Summer School on Intelligent Robotics for Outstanding International Junior and Senior High School Students

Sun. 周日

08/10

Fri. 周五

08/15

上海·临港 | 滴水湖国际软件学院

为充分发现并培养未来科技创新人才，推动智能制造、人工智能等产业发展和国际合作，华东师范大学软件工程学院（滴水湖国际软件学院）计划于8月10日（报到日）至15日期间举办国际优秀中学生智能机器人夏令营活动。

To foster the development of future technological talents and promote advancements in intelligent manufacturing, artificial intelligence, and related industries through international collaboration, the Software Engineering Institute at East China Normal University (Dishui Lake International Software Engineering Institute) will host the 2025 Summer School on Intelligent Robotics for Outstanding International Junior and Senior High School Students from August 10 (registration and check-in day) to August 15, 2025.

主办单位 Organizers

国家软件人才国际培训基地（上海）
National Software Talent International Training Base (Shanghai)

华东师范大学软件工程学院（滴水湖国际软件学院）
Software Engineering Institute, East China Normal University (DISEI)

协办单位 Co-organizers

Rosen Bridge Singapore（新加坡）

The Construct Robotics Institute（西班牙）





活动简介 Introduction

人工智能（AI）和机器人技术是当今科技发展的两大重要领域，已成为**世界强国重点发展的产业**，是衡量一个国家科技创新的重要标志，是全面融入国计民生的重要支撑技术。培育该领域新工科人才已成为国家教育的重要部署。

Artificial intelligence (AI) and robotics are two of the most critical pillars in today's technological landscape. These fields have become strategic development priorities for leading nations worldwide, serving as key indicators of national innovation capacity and as core enabling technologies deeply integrated into the economy and society. The cultivation of next-generation engineering talent in these areas has therefore become a major focus of national education strategies.

华东师范大学软件工程学院成立于2002年，是国家首批35所示范性软件学院之一，2020年再次入选首批特色化示范性软件学院。软件工程学科在教育部最新学科评估中位列A档，2020、2021、2022年**软科中国最好学科排名连续三年位列第二**，2023、2024年**升至第一**。2024年与临港新片区管委会共建滴水湖国际软件学院，开始产教融合新探索。

Founded in 2002, the Software Engineering Institute at East China Normal University is one of the first 35 national demonstration software institutes in China, and in 2020, it was again selected as part of the first batch of characteristic demonstration software institutes. The software engineering discipline was ranked A tier in the latest evaluation by the Ministry of Education. It also ranked second in the Soft Science "China Best Discipline" list for three consecutive years (2020, 2021, and 2022), and rose to first place in both 2023 and 2024. In 2024, the institute co-established the Dishui Lake International Software Engineering Institute with the Lin-gang Special Area Administration, marking a new phase in the exploration of industry-academia integration.

华东师范大学较早开展机器人操作系统相关教学，**2015年最早发起**举办全国机器人操作系统（ROS）暑期学校，与国内外同行共同推进机器人操作系统ROS在中国的普及与产业应用，至今已经10届，共有近500所高校，上万名本科生、硕士、博士生参加。

East China Normal University was one of the earliest institutions in China to launch education initiatives focused on the Robot Operating System (ROS). In 2015, it pioneered the ROS Summer School, in collaboration with domestic and international partners, to promote the adoption and industrial application of ROS across the country. Now in its 10th year, the program has attracted participation from nearly 500 universities and has trained tens of thousands of undergraduate, master's, and doctoral students.

教师信息 Instructors

- 张新宇，华东师范大学软件工程学院教授、博士生导师，智能机器人运动与视觉实验室主任，中国ROS（机器人操作系统）暑期学校创始人，ROSCon China 2024（ROS开发者大会）大会主席，担任中国高校智能机器人创意大赛等多个机器人竞赛指导专家或评委。

Zhang Xinyu, Professor and Doctoral Supervisor of Software Engineering Institute, ECNU, Director of Intelligent Robot Motion and Vision Laboratory, founder of China ROS (Robot Operating System) Summer School, President of ROSCon China 2024 (ROS Developer Conference). Served as the expert advisor and judge of various robot competitions such as the Intelligent Robot Creative Competition of Chinese Universities.



张新宇

- Moo Chee Gen，国家软件人才国际培训基地具身智能外籍特聘高级讲师，Rosen Bridge Singapore 联合创始人兼首席执行官。曾在多家世界知名企业担任高级工程师，积累了扎实的工业界实践经验。随后在新加坡科技与设计大学担任高级研究员，专注于人工智能与机器人系统的设计与开发，曾主导并圆满完成多项由新加坡政府资助的国家级机器人研发项目。现全力投入于人工智能与机器人教育事业，致力于搭建教育界与工业界的桥梁，推动科技人才的早期培养与产教深度融合。

Distinguished Foreign Senior Lecturer in Embodied Intelligence at the National Software Talent International Training Base (Shanghai); Co-founder & CEO of Rosen Bridge Singapore. Previously served as a senior engineer at several world-renowned companies, gaining extensive hands-on experience in industrial engineering. Later joined the Singapore University of Technology and Design (SUTD) as a senior researcher, focusing on the design and development of AI and robotic systems. Successfully led and delivered multiple government-funded national robotics R&D projects. Currently dedicated to advancing AI and robotics education, with a strong commitment to bridging academia and industry, nurturing future talent, and driving deeper integration between education and technological innovation.



Moo Chee Gen

- Cheng Ruo Xi，国家软件人才国际培训基地具身智能外籍特聘高级讲师，Rosen Bridge Singapore 联合创始人兼执行董事。毕业于新加坡科技与设计大学（Singapore University of Technology and Design），主修计算机科学与设计。毕业后留校担任机器人与自动化实验室（ROAR Lab）研究员，专注于人工智能与机器人系统的设计与开发。现专注于人工智能与机器人教育内容的研发，致力于为不同年龄段学习者提供系统化、实践导向的科技教育方案。

Distinguished Foreign Senior Lecturer in Embodied Intelligence at the National Software Talent International Training Base (Shanghai); Co-founder & Executive Director of Rosen Bridge Singapore. Graduated from the Singapore University of Technology and Design (SUTD), majoring in Computer Science and Design (CSD). Continued research at the university's Robotics and Automation Research Lab (ROAR Lab), focusing on the design and development of AI and robotic systems. Currently committed to developing AI and robotics education content, with a focus on providing systematic, practice-oriented STEM learning programs for learners across all age groups.



Cheng Ruo Xi



1. 招生对象 Target Participants

- 国内外在读高中生、拥有编程基础的优秀初中生
Local and international senior high school students, excellent junior high school students with programming experience
- 对信息类相关专业有浓厚兴趣，思想上进、志存高远、具有强烈社会责任感，身心健康
Possesses strong interest in Information Systems/ Computer Science related majors, forward thinking, ambitious, a strong sense of social responsibility, physically and mentally healthy
- 综合素质突出，学习成绩优秀，外语水平良好，动手能力强
Well rounded, excellent academic performance, good foreign language proficiency, and strong hands-on ability
- 对机器人领域具有强烈志趣，在机器人、信息学等相关竞赛中取得优异成绩的同学同等条件下优先录取入营
Students who have a strong interest in the field of robotics and have achieved excellent results in relevant competitions such as robotics and informatics will be given priority for admission to the camp under the same conditions

2. 课程亮点 Program Highlights

前沿技术知识

学习人工智能机器人技术前沿知识
Explore cutting-edge knowledge in AI and robotics

优质学习环境

卓越教师团队与国际化学习氛围
Learn from an exceptional team of instructors in an international learning environment

科学课程体系

理论与实践相结合的互动型课程体系
Experience an interactive curriculum that integrates theory and practice

直通国际赛事

获得高校认证证书与国际科创赛事直通邀请名额
Receive a university-endorsed certificate and potential nomination for international science and innovation competitions

3. 课程细节 Details

☑ 学习方式 Mode of Learning

教授讲座、实验课程、报告撰写、项目答辩、企业参访等

Lectures by renowned academic experts, hands-on lab sessions, project reporting, final presentation, and industry visits

☑ 授课语言 Language of Instruction

中英双语

Bilingual (Chinese and English)

4. 日程安排 Schedule

8月10日 10 Aug	报到 入住公寓 破冰活动 项目分组 Registration, Check-in, Ice-breaking, Group Assignment
8月11日 11 Aug	开营仪式 Opening Ceremony
	课程一：《机器人导论》Session1- Introduction to Intelligent Robotics
	课程二：《Linux操作系统面向机器人技术的运用》 Session 2 - Linux OS for Robotics Application
8月12日 12 Aug	课程三：《Python3面向机器人技术的运用》 Session 3 - Python3 Application in Robotics
	企业参访和交流 Industry Visits
	课程四：《Generative AI 面向机器人技术的应用》 Session 4 - Generative AI in Robotics Application
8月13日 13 Aug	课程五：《ROS2 基础学习（1）》 Session 5 - ROS2 Fundamentals (1)
	课程六：《ROS2 基础学习（2）》 Session 6 - ROS2 Fundamentals (2)
	城市采风、上海天文馆 City Tour
8月14日 14 Aug	课程七：《ROS2 基础学习（3）》 Session 7 - ROS2 Fundamentals (3)
	课程八：《机器人智能导航实践（1）》 Session 8 - Robot Autonomous Navigation (1)
	课程九：《机器人智能导航实践（2）》 Session 9 - Robot Autonomous Navigation (2)
8月15日 15 Aug	课程十：《机器人智能导航实践（3）》 Session 10 - Robot Autonomous Navigation (3)
	小组答辩 结营仪式 招生宣讲 Final Presentation, Closing Ceremony, Admissions Talk

* 最终行程以实际情况为准



企业参访 Industry Visits



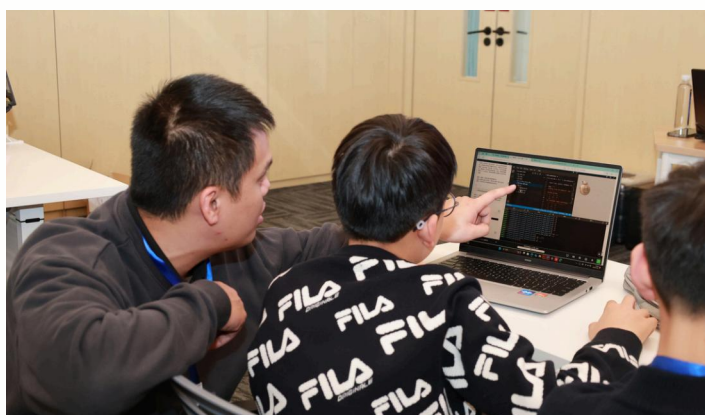
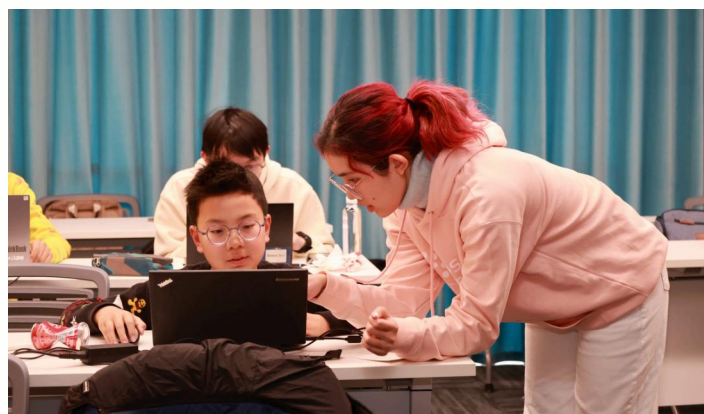
城市采风 City Tour



* 最终行程以实际情况为准



课程回顾 Review





5.学习与住宿环境 Study and living space



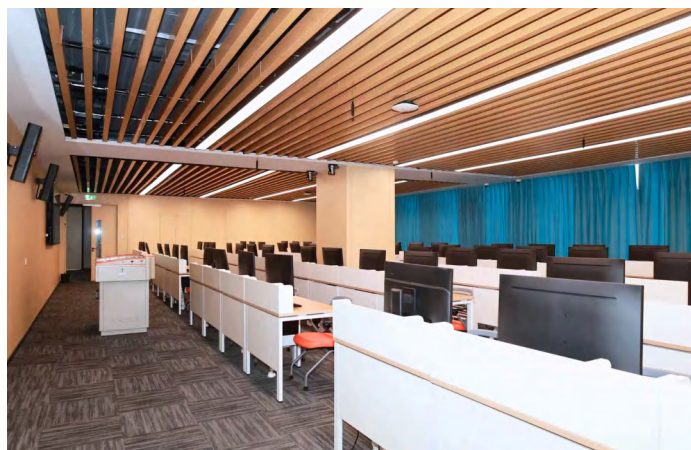
学院大楼 College Building



学院中庭 College Atrium



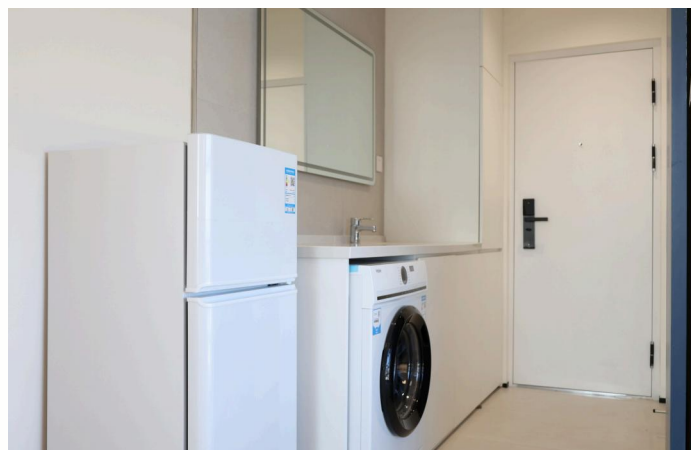
就餐区 Dining Area



学生机房 Student Computer Lab



学生公寓 Student Dormitory



学生公寓 Student Dormitory

本次夏令营入住华东师范大学滴水湖国际软件学院学生公寓，2人一间，沉浸式体验大学生活。在共享空间中感受集体生活的温暖互动，于朝夕相处间收获志同道合的情谊！

We will offer an immersive stay in East China Normal University DISEI (Dishui Lake International Software Engineering Institute) student dormitory double occupancy rooms, designed to replicate authentic university life. Through shared spaces, participants will experience heartwarming interactions within a close-knit community, while forging lasting friendships with like-minded peers through daily collaboration and camaraderie!



6. 收费标准 Registration Fee

专属优惠
立即报名

7000 元/人 ¥ RMB 7,000.00

专属优惠

Special Discounted Rate

华东师大附属学校在读学生、华东师大教职工子女、校友子女报名**立减500元**

A special discounted rate of RMB 6,500.00 is available for current students from East China Normal University's affiliated schools, children of ECNU faculty, staff and alumni.

费用说明

Fee Structure

- 费用包括住宿费、餐饮费、授课费、活动费、资料费、保险费以及可能产生的参观费用
- 学生的差旅费用自行承担。
- 由华东师范大学统一开具发票。
- The fee covers accommodation, meals, tuition, activity expenses, course materials, insurance, and any admission fees for organized visits.
- Travel expenses for participants are not included and should be arranged independently.
- Invoices are centrally issued by East China Normal University.

7. 报名缴费 Registration



扫码报名



扫码缴费

有意向报名者请扫描上方二维码填写报名信息并缴费

2025年7月15日前提交报名材料，由华东师范大学负责审核材料并择优录取

Those interested in registering are requested to scan the QR code above to fill in the registration information.
Application materials should be submitted before July 15, 2025. ECNU will be responsible for reviewing the materials and selecting the best applications.



8. 退费政策 Refund Policy

报名成功后，如因特殊原因不能参加可于**2025年8月9日(含)**前提交退款申请。

Refund request should be made on or before August 9, 2025 (inclusive) for cancellations due to personal reasons

退款比例标准如下：

- **7月5日（含）**前提交退款申请，可**全额退款**；
- **7月6日-8月9日（含）**提交退款申请，可**退款60%**；
- 若不成团（报名人数少于30人）或因不可抗力因素取消，全额退款。

Refund rate benchmarks:

- 100% refund for cancellations made on or before July 5 (inclusive).
- 60% refund for cancellations made between July 6 and August 9 (inclusive).
- A full refund will be issued in the event of program cancellation due to insufficient enrollment (fewer than 30 participants) or force majeure.

9. 联系方式 Contact Information



+86-17326030345



yzlu@sei.ecnu.edu.cn

10. 临港风采 Lin-gang's Must-See Views



活动地址：上海市浦东新区南汇新城镇楠木路111号滴水湖国际软件学院



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