

# 东南大学 2022 年智能与先进控制国际暑期学校项目介绍

SEU International Summer School Program on Intelligence and Advanced Control

**项目主题** 智能与先进控制

**Theme** Intelligence and Advanced Control

**项目概述** 数据挖掘(1.5)、先进控制(1.5)、网络信息编程(1)，挣学分、打基础；  
海外院士、Fellow、AI 新星随堂讲座，了解前沿、点燃科研梦想；  
中外导师联合指导，“云实习” (1.5)，十几个项目，启航科研生涯。

**Overview** You can earn credits and lay the foundation from courses: Data mining (1.5), advanced control (1.5), network information programming (1); You will learn the cutting-edge topics and ignite your scientific research dreams from wonderful lectures by overseas academicians, Fellows, and AI rising stars; Come and set sail for your scientific research career from the "cloud internship"(1.5) guided jointly by the foreign and domestic tutors; More than a dozen projects are waiting for you!

**日程安排** 起止时间: 8月8日 - 9月4日

**Schedule** Duration Time: 8<sup>th</sup> August - 4<sup>th</sup> September

## 1. 课程安排及大师讲座

Courses and master lectures

Course	Teachers	Course Type	Grade	Co-Lecturer Overseas
Data Science for Intelligent System (数据挖掘)	Prof. Wang Hai, Saint Mary's University	Theoretical courses Frontier Lecture	Junior	Prof. Danica Kragic Jensfelt, KTH Royal Institute of Technology
Advanced Control in complex industrial process (实时优化与先进 控制)	Dr. Nie Xiaokai, Southeast University	Seminar Frontier Lecture	Junior	Prof. Alessandro Astolfi, Imperial College University
Intelligent network and Information Engineering (网络信息编程)	Prof. Wang Hai, Saint Mary's University	Theoretical courses Frontier Lecture	Sophomore	Prof. Fang Fei, Carnegie Mellon University

## 2. “云 Lab”暑期“云”实习

### “Cloud” Internship in “Cloud Lab”

	Tutor overseas	Topic	Tutor in SEU
☆	Zhaojie Ju, Reader, University of Portsmouth	Robot mobile grasping based on humanoid learning	Li Xinde (李新德)
☆	Yongqiang Wang, Associate Professor, Clemson University	Control theoretical approach for privacy preservation in distributed optimization and learning	Zhang Ya (张亚)
☆	Bosen Lian, Assistant Professor, University of Texas, Arlington	Data-driven optimal control of linear system	Zhang Ya (张亚)
☆	Zhen Song, Doctor/Department Heads, Siemens Corporate Technology USA	Scheduling algorithms of large-scale robotic warehouse	Li Jun (李俊)
☆	Takeshi Ikenaga, Professor, Waseda University	3D Human Pose Estimation from Monocular Video	Du Songlin (杜松林)
☆	Kaiwen Chen, Assistant Professor, Imperial College London	Design and simulation of adaptive control for robots	Chen Yangyang (陈杨杨)
☆	Zhenhua Feng, Lecturer, University of Surrey	Pedestrian fall detection based on 2D pose estimation	Yang Wankou (杨万扣)
☆	Shan Luo, Associate Professor, King’s College London	Research on the application of visual touch in robot operation	Qian Kun (钱堃)
☆	Hong Pan, Research Fellow, Swinburne University of Technology	Unmanned intelligent weighbridge based on visual perception	Xia Siyu (夏思宇)
☆	Angeliki Krititaou, Associate Professor, University of Rennes	Research on optimal scheduling of approximate computing tasks on multi-core platforms	Mo Lei (莫磊)
☆	Kemao Qian, Associate Professor, Nanyang Technological University	Research of lightweight human pose estimation network	Wang Chenxing (王辰星)

**招生人数** 150

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**Number of Participants** 150

- 申请要求**
- 自动化、机器人、计算机、数学等专业本科学生优先;
  - 大二或大三学生
  - 具有较好的英语能力
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**Application Requirements**

- **Automation, Robotics, Computer, Mathematics related Majors are preferred;**
- **Undergraduate Second/Third year**
- **Have good English ability**

**申请截止时间** 6月20日

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**Application Deadline** 20<sup>th</sup> July

**主办/承办单位** 自动化学院

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**Host & Organizer** School of Automation

**联系人及联系方式** 王辰星, [cxwang@seu.edu.cn](mailto:cxwang@seu.edu.cn)

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