

哈尔滨工业大学“智能机器人”暑期学校项目

一、学校介绍:

哈尔滨工业大学成立于 1920 年，在长期的办学过程中，形成了“规格严格，功夫到家”的校训，以朴实严谨的学风培养了大批优秀人才，以追求卓越的创新精神创造了丰硕的科研成果。哈尔滨工业大学隶属于工业和信息化部，是由工信部、教育部、黑龙江省共建的国家重点大学，是首批进入国家“211 工程”和“985 工程”建设的若干所大学之一。

二、项目介绍:

本次暑期学校的授课内容包括“机器人前沿技术”，“机器人交互体验设计”，“微纳流体机械系统”等，邀请到了瑞典耶夫勒大学、瑞典皇家理工学院机器人领域专家 Gurvinder S. Virk 教授和普渡大学两名在机电系统、机器人领域有着卓越成果的机械工程系教授 Steve Wereley 和 Mickey Vorvoreanu。

此外，作为本次暑期学校的特色，将以竞赛的形式为学员提供在国内外导师带领下进行智能机器人设计及实现的机会，理论教学与实践教学紧密结合，力争使每名学生都有较大的收获。与此同时，还将组织安排丰富多彩的参观和主题活动，竭力为学生呈现一个精彩、丰富、有收获的暑期学校。

三、具体安排

1. 时间安排：7 月 10 日-29 日；
2. 学习内容安排见下表：

时间	课程	课程内容	主讲人	学时	学分
第一周	讲座 (R)	R: 专题讲座与报告	中国工程院院士蔡鹤皋等	16	1
	授课 (C)	C1: 机器人交互体验设计	普渡大学机械工程系副教授 Mickey Vorvoreanu	16	1
C2: 机器人前沿技术		瑞典耶夫勒大学、瑞典皇家理工学院机器人领域专家教授 Gurvinder S. Virk	16	1	
C3: 微流体机械系统		普渡大学机械工程系教授 Steve Wereley	16	1	
第三周	科技竞赛 (S)	S: “探索者”机器人创新竞赛	Gurvinder S. Virk 等	40	2

3. 此次暑期学校期间还会组织文化参观、素质拓展等活动;
4. 暑期学校结束后将为学员颁发课程成绩单及暑期学校结业证书;
5. 具体内容以实际安排为准。

四、报名要求

本次暑期学校面向国外高校相关专业（机械、电气、自动化、计算机、材料等）大二、大三年级本科生。由于全部课程为英文授课，需要学生具备较强英文听说能力。

五、费用：

报名费：400 元

学费：2000 元

住宿：600 元

备注：友好院校高校学生(需提供院校推荐信)享受免学费、住宿费、参观费，其他费用自理。

六、联系人：

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HIT “Intelligent Robot” Summer School Program

I. University Introduction

Founded in 1920, Harbin Institute of Technology (HIT), with science, engineering and research as its core, encompassing management and liberal arts, economy and law, is now developing into an open, multi-disciplinary and world-class university. In the latest US News2016 engineering college rankings of the world, Harbin institute of technology ranking Number 7.

II. Program Introduction

The course content of this summer school covers “Leading Edge Technology of Robots”, “The Design of Robot Interactive Experience”, “Micro-nano Mechanical System” and so on. We have invited an expert in the field of robots---Professor Gurvinder S. Virk comes from University of Gävle and Royal Institute of Technology and two experts with outstanding achievements in the field of mechanical and electrical system, and the field of robots---Professor Steve Wereley and Vice Professor Mickey Vorvoreanu come from the Department of Mechanical Engineering of Purdue University to teach classes.

In addition, as the characteristic of this summer school, to combine the theory teaching and practical teaching and try our best to make every student has larger harvest, we will provide the opportunity to design Intelligent robot and realize them under the lead of the teachers from both home and abroad in the form of competition. Meanwhile, we will organize and arrange rich and colorful visit and theme activities to make this summer school brilliant, colorful and fruitful.

III. Schedule of Summer School

1. Time arrangement: July 10th –July 29th
2. Course content arrangement:

Time	Course	Course content	Keynote Speaker	Credit Hours	Credit
The first week	Report	R: Theme lecture and report	Chinese Academy of Engineering Cai Hegao	16	1
	Class	C1: The Design of Robot Interactive Experience	Vice Professor Mickey Vorvoreanu from Department of Mechanical Engineering of Purdue University	16	1

The second week(forenoon)		C2: Leading Edge Technology of Robots	Expert of robots---Professor Gurvinder S. Virk from University of Gävle and Royal Institute of Technology	16	1
The second week(afternoon)		C3: Micro-nano Mechanical System	Professor Steve Wereley from Department of Mechanical Engineering of Purdue University	16	1
The third week	Scientific contest	S: "Explorer" Robots independent innovative design competition	Gurvinder S. Virk	40	2

3. We will organize activities such as cultural tour and quality development.
4. We will issue the grade report of courses and course-completion certificate.
5. Specific content will be subject to actual arrangement.

IV. Requirements

The sophomore and junior students of related major (mechanical, electrical, automation, computer, material) from foreign universities will be accepted. Students must have strong English listening and speaking skills because all courses will be taught in English.

V. Fee

Registration fee: 400RMB

Tuition fee: 2000RMB

Accommodation: 600RMB

Note: Students from friendly universities who need to provide the recommendation letter from school are exempt tuition fees, accommodation fees and visit fees.