



学院简介

清华大学信息科学技术学院（以下简称：信息学院）组建于1994年，目前由4个系、3个研究实体、1个国家示范性软件学院组成，有1个国家集成电路人才培养基地、2个国家工程技术研究中心和4个国家工程实验室，是科技部批准组建的6个国家研究中心之一“北京信息科学与技术国家研究中心”（以下简称：信息国家研究中心）的具体依托单位。信息学院是清华大学规模最大的学院之一，拥有7个一级学科，22个二级学科，6个博士后流动站；设有电子信息科学与技术、微电子科学与工程、计算机科学与技术、自动化、软件工程5个本科专业；现有事业编制教职工561人（教师467人，教学辅助人员94人），在校学生7098人（本科生2975人，硕士生2076人，博士生2047人）。

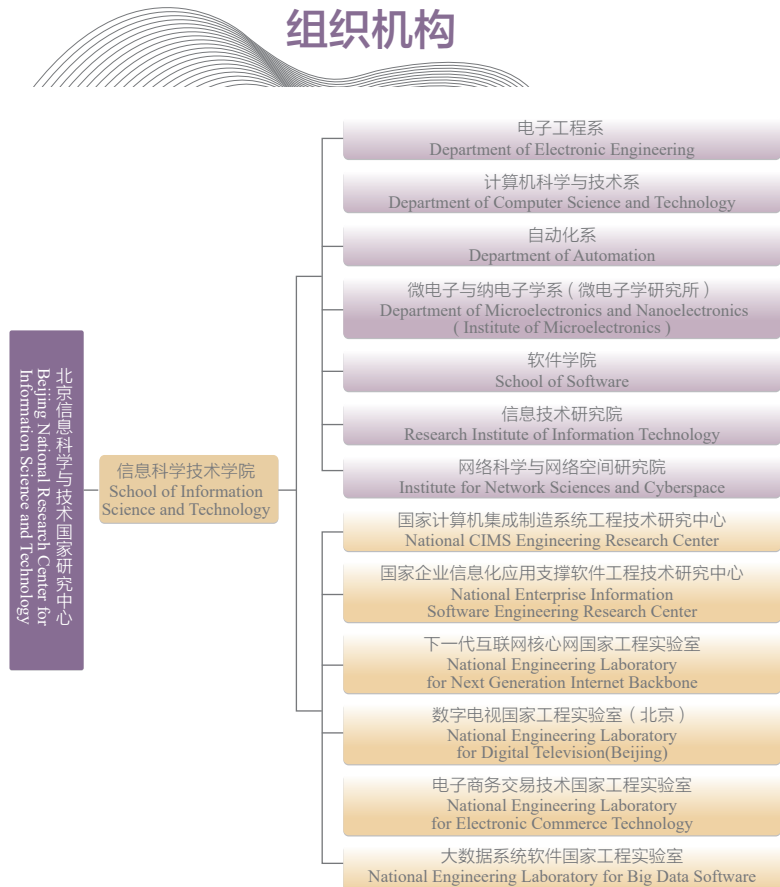


院长 戴琼海



党工组长 金德鹏

组织机构



信息学科群统计数据

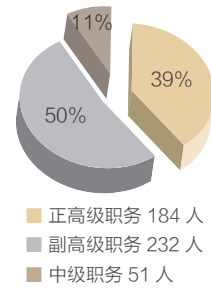
学科建设

一级学科

- 电子科学与技术
- 信息与通信工程
- 控制科学与工程
- 计算机科学与技术
- 软件工程
- 网络空间安全
- 集成电路科学与工程

截至2020年底，信息学院共有教师467人，有186人入选各类国家人才计划。

教师结构



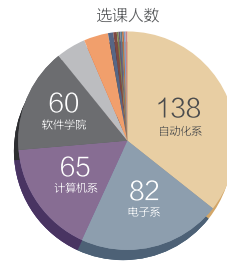
杰出人才

中国科学院院士	4
中国工程院院士	7
长江学者特聘教授	17
国家杰出青年科学基金获得者	44
中青年科技创新领军人才	15
青年长江学者	14
优秀青年科学基金获得者	48
青年拔尖人才	8

信息学院特色工作

学生培养

特色课程 信息学院目前包含电子信息类、计算机类、自动化类3个本科大类。自2003年起信息学院面向本科生新生开设通识类基础课《信息科学技术概论》，内容涵盖信息科学技术的内涵、现状和对社会进步产生的作用，涉及信息学院相关学科研究方向介绍、未来信息技术发展趋势以及对其它学科的推动等。2020-2021年秋季学期共有来自电子系、计算机系、自动化系、软件学院等14个院系387名学生选课。



研究生出席国际会议 为支持信息学院学生出国参加高水平的国际学术会议，促进学生与国际顶尖学者直接交流与沟通，了解所在学科研究领域的最新进展和动态，2004年，清华校友邓锋先生在信息学院捐资设立并启动研究生出席国际会议基金，2010年更名为“登峰基金”。在基金发展过程中，先后获得了邓锋先生、清华大学、日本株式会社野村综合研究所、无锡儒安科技有限公司和赵仕勤先生的捐助。2011-2020年，该基金共资助1008名研究生，受资助学生足迹遍布40余个国家和地区。

高水平国际竞赛 为进一步加大信息学院国际化人才培养力度，提升学生的学术水平与创新能力，自2017年9月起，信息学院扩大“登峰基金”支持范围，增设了高水平国际竞赛项目，用于支持信息学院学生参加高水平国际竞赛。截至2020年底，共资助高水平国际竞赛团队9个，受资助团队均在国际大赛中取得了优异成绩。

学生奖励 为支持清华大学的教育事业，奖励学生勤奋学习，培养更多的优秀人才，英特尔公司出资在清华大学设立了“清华大学—英特尔奖学金”，专门奖励在信息科学与工程领域内有独立工作能力，并具有科研能力和创新精神的信息学院优秀硕士生和博士生。2011-2020年，共有50名分别来自电子系、计算机系、自动化系、微纳电子系和软件学院的优秀硕士生和博士生获得此项奖励。

教师队伍

科学研究

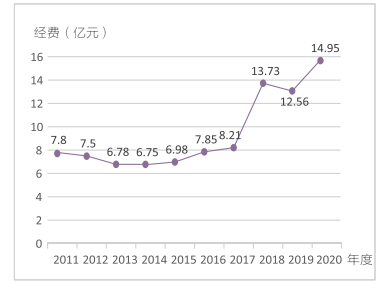
国家科技奖励

2011-2020年，信息学院累计获得国家科技奖励40项（作为第一完成单位获得30项，作为参与单位获得10项），包括国家自然科学基金9项，国家技术发明奖15项，国家科学技术进步奖16项。

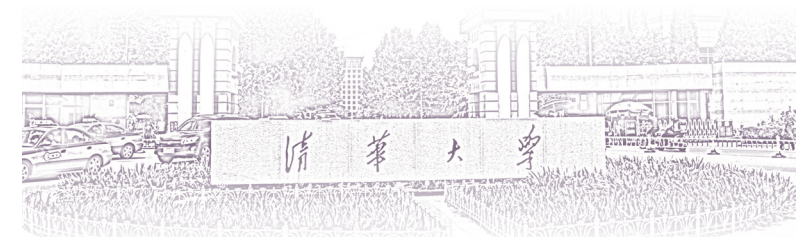
论文专著专利

年度	总数	论文		专著		专利	
		SCI	EI	申请	授权		
2010	2459	451	761	18	528	255	
2011	2113	501	774	18	560	309	
2012	2000	523	585	24	545	426	
2013	2158	680	847	27	647	380	
2014	2136	689	667	21	565	317	
2015	2142	639	814	23	497	371	
2016	1546	735	882	15	522	477	
2017	2054	744	687	22	761	511	
2018	2102	662	765	17	745	520	
2019	2091	734	未统计	13	858	566	
总计	20801	6358	6782	198	6228	4132	

科研经费



交流合作



青年学者沙龙 为建设清华大学跨学科合作创新文化，促进交叉合作，信息学院和信息国家研究中心2020年联合主办清华信息青年学者沙龙。本年度共举办学者沙龙3期。

系列交叉论坛 为深入探讨国际前沿交叉领域，推动跨学科交叉研究，信息国家研究中心主办“北京信息科学与技术国家研究中心系列交叉论坛”。本年度共举办系列交叉论坛18期。

清华信息大讲堂 清华信息大讲堂以支持信息学院教师邀请国内外知名学者和专家来校做学术报告的形式进行，自2005年启动以来，陆续受到了都科摩、诺基亚、IBM、日立、Intel、波音、NEC、三星公司等多家知名外企的捐赠。2011-2020年，共举办学术报告122讲。

清华信息学院—南加大工学院合作项目 为加强清华大学与美国南加州大学两校教师之间的交流与合作，提高学生的国际交流能力和学术创新能力，两校共同的校友邓锋先生自2006年起在信息学院捐资设立“清华大学信息学院—南加州大学工学院合作项目”，主要用于支持清华—南加大双边教授论坛和清华—南加大本科生暑期交换项目等。2011-2020年，双边教授论坛共举办8次，175名教授参与了论坛交流；暑期交换生项目共开展10期，来自两校132名本科生报名参加，其中2020年的项目以远程学术研修的方式开展。

Statistics of the Disciplinary Cluster of Information Science

Disciplinary Construction

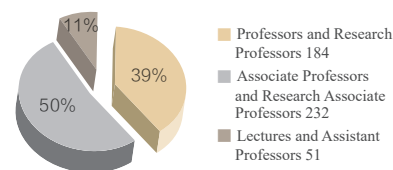
First-level Disciplines

- Electronics Science and Technology
- Information and Communication Engineering
- Control Science and Engineering
- Computer Science and Technology
- Software Engineering
- Cyberspace Security
- Integrated Circuit Science and Engineering

Faculty

By the end of 2020, there were 467 teachers in the SIST, 186 of whom had been selected into various national talent programs.

Faculty Composition



Outstanding Talents

Academicians of the Chinese Academy of Sciences	4
Academicians of the Chinese Academy of Engineering	7
Distinguished Professors of the Yangtze River Scholars Program	17
Winners of National Science Fund for Distinguished Young Scholars	44
Young and Middle-aged Leaders in Scientific and Technological Innovation	15
Young Scholars of the Yangtze River Scholars Program	14
Winners of Outstanding Youth Science Foundation	48
Outstanding Young Talents	8

Research

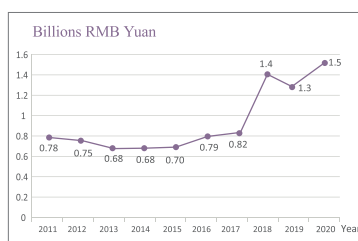
National Science and Technology Award

From 2011 to 2020, the SIST won a total of 40 national science and technology awards (30 completed as the first unit and 10 as the participating unit), including 9 national natural science awards, 15 national technological invention awards and 16 national science and technology progress awards.

Papers/Books/Patents

Year	Total	Papers		Books	Patents	
		SCI	EI		Filled	Granted
2010	2459	451	761	18	528	255
2011	2113	501	774	18	560	309
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2017	2054	744	687	22	761	511
2018	2102	662	765	17	745	520
2019	2091	734	N/A	13	858	566
Total	20801	6358	6782	198	6228	4132

Research Funding



Work of the SIST

Student Training

Course Introduction

The School of Information Science and Technology (SIST) of Tsinghua University currently includes three major undergraduate categories: electronic information, computer science and automation. Since 2003, the SIST has been offering a general basic course "Introduction to Information Science and Technology" for undergraduate freshmen, which covers the contents, current situation and role of information science and technology in social progress, and involves

the introduction of research directions of related disciplines in the SIST, the future development trend of information technology and the promotion of other disciplines. In the autumn semester of 2020-2021, 387 students from 14 departments, including the Department of Electronics, the Department of Computer Science, the Department of Automation and the School of Software selected this course.

Fund for Postgraduate Students to Attend International Conferences

In order to support the students of the SIST to go abroad to participate in high-level international academic conferences, to promote direct communication between students and top international scholars, and to understand the latest developments and trends in their research fields, in 2004, Mr. Deng Feng, an alumnus of Tsinghua, donated money to set up the fund for postgraduate students of the SIST to attend international conferences. The Fund was renamed as the "Deng Feng Fund" in 2010. During the development, the fund has successively received donations from Mr. Deng Feng, Tsinghua University, Nomura Research Institute of Japan, Wuxi Ru'an Technology Co., Ltd. and Mr. Zhao Shiqin. From 2011 to 2020, 1,008 postgraduates were supported by the fund, who had presence over 40 countries and regions.

Fund for Students to Attend High-level International Competitions

To further strengthen the training of international talents in the SIST and enhance students' academic performance and innovation ability, the SIST has expanded the support scope of the "Deng Feng Fund" since September 2017, adding high-level international competition programs to support students of the school to participate in high-level international competitions. By the end of 2020, nine student teams attending high-level international competitions had been funded, and all the funded teams had achieved excellent results in these competitions.

Scholarship

To support Tsinghua University's education, encourage students to study hard and train more outstanding talents, Intel Corporation has funded the establishment of the "Tsinghua-Intel Scholarship" in Tsinghua University, which specifically rewards outstanding master's and doctoral students of the SIST with independent working ability, research ability and innovative spirit in the field of information science and engineering technology. From 2011 to 2020, a total of 50 outstanding master's and doctoral students from the Department of Electronic Engineering, Department of Computer Science and Technology, Department of Automation, Department of Microelectronics and Nanoelectronics, and School of Software respectively won the scholarship.

Exchange Cooperation

Young Scholars Forum

The SIST and the National Research Center for Information Science and Technology jointly hosted the Tsinghua Information Young Scholars Forum in 2020 in order to build a culture of interdisciplinary cooperation and innovation in Tsinghua University and promote cross-cooperation. This year, three scholars forums have been held.

Cross-Disciplinary Forums

In order to deeply explore the international frontier and cross-disciplinary fields and promote cross-disciplinary research, the National Research Center for Information Science and Technology sponsors the "Beijing National Research Center for Information Science and Technology Cross-Disciplinary Forum". This year, a total of 18 cross-disciplinary forums have been held.

Tsinghua Information Forum

The Tsinghua Information Forum is held in the form of supporting teachers of the SIST to invite renowned scholars and experts from home and abroad to deliver academic reports. Since its launch in 2005, it has received donations from several well-known foreign companies such as NTT DOCOMO, Nokia, IBM, Hitachi, Intel, Boeing, NEC and Samsung. From 2011 to 2020, 122 lectures on academic reports were rendered.

Cooperation Project between the Tsinghua SIST and the University of Southern California (USC)

In order to strengthen exchanges and cooperation between faculties of Tsinghua University and USC, and improve students' competencies in international communication and academic innovation, Mr. Deng Feng, a common alumnus of both universities, has donated money to sponsor the "Tsinghua University SIST-USC Institute of Technology Cooperation Program" in the School of Information Science and Technology since 2006. His donation is mainly used to support the Tsinghua-USC Bilateral Professor Forum and the Tsinghua-USC Undergraduate Summer Exchange Program. From 2011 to 2020, the bilateral professor forum was held eight times, with 175 professors participating in the forum exchange; 10 summer exchange programs were held, in which 132 undergraduates from two universities participated, and the program in 2020 was carried out in the form of long-distance academic study.

2021

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