李建春 崔洋 郭青 编

最新

美国 加拿大

名校教授信息手册

信息科学分册

最新美国、加拿大名校
教授信息手册

信息科学分册

李建春 崔 洋 郭 青 编

前　言

随着国际互联网在我国的迅速发展,使得我们与世界各个国家的交流变得日益快捷方便起来,然而当今网络世界的信息资源浩如烟海,在网上浏览同类信息需要大量时间和费用,因此我们归纳整理美国、加拿大教授研究方向资料,方便读者通过 E-Mail 直接与教授联系。过去一封发往海外的信函,收到回信往往需要一个多月的周期,自从有了 E-Mail(电子邮箱),发信过程只需几秒钟,而且费用只为普通信函的十分之一,这对于经常与国外有联系的科技人员、外贸工作者和有志于到海外留学的青年学子来说是一个很好的工具。

本套手册选择了美国和加拿大百余所著名大学的热门院系及相关专业教授姓名、研究方向和课题情况,以及大部分教授的 E-Mail 地址(电子邮箱),这尤其适用于欲到美国、加拿大留学的人员,因为美国和加拿大的学校奖学金的给予权很大一部分都掌握在教授手中,直接与教授联系,可以很快地知道奖学金的分配,这已经成为获得全奖的一条切实可行的路线。本书同时也适用于争取与美、加教授合作的高校及科研院所的科技工作者,出国进修的访问学者等。本书资料内容详细,时效性强,对于从事外事、科研、信息情报收集人员跟踪世界最新科技动态同样具有参考价值。

本套手册按学科分为四个分册。生命科学分册包括生物化学、微生物学、生理学、农学、分子生物学、植物学、生物学等学科。数理化、环境、材料科学分册包括数学、物理、天文学、化学、环境、材料、化工等学科。信息科学分册包括计算机科学、电子工程等学科。经济管理科学分册包括MBA、管理、会计、审计等学科。读者可以根据自己的需要选择。

本书按美国、加拿大百余所著名大学的字母顺序排列,同时给出大学及相关系的 WWW 及 E-Mail 地址,有条件的读者也可以上网查询。本书附美国大学综合实力前五十的排名,读者可以根据自己的情况选择学校。

本书的作者同时也是本书的使用者,在清华大学攻读博士、硕士期间收集的美、加教授资源信息深受同学喜爱,萌生整理成册之念,以便与大家共享。参加编写的还有施桦、胡晓辉、冯刚、汤青、涂光忠、王炜、戴剑彬、董晓静、王楠等同志。感谢张志诚、陈永丽、王居硕在本书编辑过程中给予的大力支持与帮助。

作者 1998 年于清华园

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Department of Computer Science and Information Systems
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The Department of Computer Science and Information Systems at American University offers a wide variety of academic programs for students at both the undergraduate and graduate level of study. The faculty have extensive work experience and do consulting and research in all aspects of computing. The Department combines the resources and knowledge of two disciplines that concentrate on different aspects of the computer and information revolution. This combination enables students to gain a broader view of these fields than would otherwise be possible.

American University's Washington, D.C. location affords students access to many governmental, cultural, scientific, and historical institutions. These institutions serve as an important research resource. In addition, they are a source of full-time and part-time employment for students with a strong technological background.

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The Department of Electrical Engineering offers graduate programs of instruction and research leading to the degrees of Master of Electrical Engineering (M. E. E), Master of Science (M. S.) and the Doctor of Philosophy (Ph. D.). Instruction is offered and re-

search facilities are available to support graduate study in automatic controls, communications, digital systems, electromagnetics, electronics, and energy conversion and power systems. Additionally, individualized programs that cross the traditional boundaries of engineering, mathematics, and the sciences can be accommodated.

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Department of Computer Science and Engineering

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The Department of Computer Science and Engineering offers two Master's degrees, the M. S. (thesis option) and the M. C. S. E. (project or exam option), as well as the Ph. D. degree. The department currently has over 400 undergraduate majors and 80 graduate students. It offers bachelor's degrees in both Computer Science and Computer Engineering. The students within the department are quite involved pro-

fessionally, as evidenced by active chapters of ACM and UPE. The faculty is committed to a balanced program in both instruction and research, with the goal of achieving excellence in Artificial Intelligence, Software Engineering, Parallel Computation, Computer Networks, Operating Systems, Language Theory and Compilers, Human/Computer Interaction, and Hardware/Software Codesign.

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School of Engineering and Computer Science
Programs of Study

Hallmarks of the Department of Computer Science at Baylor are similar to programs across the campus: individual advising, a highly-qualified faculty, small classes, and a commitment to undergraduate education. Each student in the program is assigned to a faculty adviser. This individual attention develops rela-

tionships and contacts that exist long after graduation. Abroad—based liberal arts back ground that students receive from Baylor adds polish to the breadth of computer science areas represented in the department. Group projects, technical writing, and individual presentations enhance skills necessary for success in the ever-expanding areas of computer applications.

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Computer Science Department

Program of Study

To offer programs in both the College of Arts and Science and the Carroll School of Management. This section describes only the programs in Arts and Sciences; please see the Computer Science listing under the Carroll School of Management for a description of the management programs in Computer Science and Information Systems, and for the list of Computer Science faculty. For further information you are encouraged to contact the department in Fulton 460, at 617—552—3975.

The Computer Science major curriculum is based upon current recommendations offered by the Association for Computing Machinery (ACM) for liberal arts institutions, and is designed to be intellectually challenging, just as any Arts and Sciences discipline would require. At the same time, the program provides practical, hands-on experience, as the current technological job market dictates. Students complete a ten-course computer science component, supplemented by a mathematics component rooted in Calculus and Discrete Mathematics. For a majority of students, the program dictates completion of thirteen courses.

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Department of Computer Science
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The Computer Science Department at Boston University has active research groups in the following research areas: high performance computing and communication, digital multimediacomputing, real-time systems, parallel and distributed systems, fault-tolerant computing, and expert systems. Prospective graduate students interested in one of these fields are encouraged to apply.

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The Department of Electrical and Computer Engineering (ECE) is the largest of four departments in the College of Engineering at Boston University. With forty faculty, about four hundred undergraduates, one hundred fifty M. S. students, and eighty Ph. D. students, ECE is committed to a dual mission: creating new knowledge through basic and applied research, and conveying that knowledge to students and industry through its teaching activities.

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4

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Academic excellence has always characterized Brandeis, the youngest private research university in the country. It combines the breadth and scope of a world-class research institution with the intimacy and faculty contact of a small liberal arts college.

The school supports an innovative and exciting program of learning that emphasizes an interdisciplinary approach to knowledge and the solution of real-life problems. Brandeis is the only nonsectarian Jewish-sponsored college or university in the country. A culturally diverse student body of 3020 undergraduates and 1199 graduate students enjoys unsurpassed access to an involved faculty of nationally and internationally acclaimed scholars.

Brandeis, ranked in the top tier of the nation's universities and called a "Best Value" by U. S. News & World Report's 1997 Guide to Best Colleges, is a proven avenue to advanced studies in the nation's leading graduate and professional schools. Located nine miles west of Boston, in Waltham, Massachusetts, on 235 attractive suburban acres.

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Michtom School of Computer Science

The Computer Science Department was founded in 1984 in conjunction with the generous support of the family of Benjamin and Hadassah Michtom of New York, and in whose honor the School was named. Basic research is conducted in algorithmics, artificial intelligence, distributed operating systems, networking, parallel computing, and programming languages. Particular research projects study topics in combinatorics, case based reasoning, computational linguistics, coding theory and data compression, connectionism and neural networks, constraint programming languages, distributed object storage systems, functional programming, logic programming, massively parallel computation, networking, robotics, type theory and constructive logic. This research is supported from a variety of sources, including the Defense Advanced Research Projects Agency, National Science Foundation, the Office of Naval Research, the National Aeronautics and Space Administration, the National Institutes of Health, and industrial support from Apple Computer, Digital Equipment Corporation, and Texas Instruments.

The computing facilities of the Department were greatly enhanced in 1994 by the award of a National Science Foundation CISE infrastructure grant. To support work on coarse- and fine-grained parallel computation, we acquired an SGI Onyx and a MasPar MP — 2. The SGI Onyx is a shared memory MIMD machine with 16 processors, each operating at 150 MIPS. The machine has 1 GB of shared main memory, and a direct connection to a high performance graphics monitor. The MasPar MP — 2 is a SIMD massively parallel computer with 4 096 processors connected by a two-dimensional mesh and a global router. It is clocked at 25 MHz, and has a peak performance of 17 gigainstructions per second. Complementing these facilities is a large array of networked workstations from SGI, Hewlett — Packard, Sun, DEC, and Apple;regular, high—resolution, and color laser printers; and Internet connections to computing resources worldwide. In the spring of 1994, the Computer Science Department moved to the new Benjamin and Mae Volen Center for Complex Systems, which houses research faculty in computer science, cognitive science, linguistics, neuroscience, and biology. One

of the primary goals of the Center is to foster interdisciplinary research on topics such as cognitive modeling, dynamical systems, memory, and neural networks.

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Department of Electrical and Computer Engineering
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Electrical Engineering has its origins in the study and application of electrical phenomena. However, in recent years the field has grown to embrace a diverse range of problems in applied physics and mathematics. The department currently offers advanced study in four broad areas: Computer Engineering, electromagnetics, microelectronics and VLSI, signals and Systems.

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Program of Study

The Department of Computer Science offers courses leading to honours, pass and combined honours BSc degrees in Computer Science and participates in a program offering a BCB degree in Computing & Business. We pride ourselves in maintaining up-to-date facilities and carrying on research in a variety of areas of Computer Science.

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Department of Computer Science
Fields of Study

Analysis of algorithms; artificial intelligence; combinatorial optimization; computational complexity; computational geometry; computer graphics; concurrent data structures and architectures; constraint programming; database systems; graph drawing; operating systems; parallel and distributed debugging; par-

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Mahadev Satyanarayanan — Design, implementation, and evaluation of systems.

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Program of Study

The availability of inexpensive computing systems has radically altered our way of life and work in many substantive ways. Microprocessors are now part of consumer appliances from microwave ovens, thermostats, and video cassette recorders to automobiles. Through compact disks, electronic music, synthesizers, and movie special effects, computing has even enriched our lives through the arts. Microcomputers and engineering workstations have increased productivity and provide new opportunities for computational techniques in science, engineering, and social disciplines. Thus, the study of computer science and engineering provides a student with the opportunity to influence the vitality and direction of many different fields. The Department of Computer Engineering and Science of the Case School of Engineering offers a fully accredited Bachelor of Science in Engineering degree in computer engineering (the nation's first program in this field), a Bachelor of Science in Computer Science degree and a Bachelor of Arts degree in computer science. At the graduate level there are four programs: the Master of Science and the Doctor of Philosophy degrees in computer engineering, and the M. S. and Ph. D. degrees in computing and information sciences.

The Faculty & their Research

Randall D. Beer—Computational biology; computer simulation of neural control; neural nets and artificial intelligence.

Joan Carletta—Computer architecture; VLSI system design and test; CAD design automation.

George W. Ernst — Artificial intelligence; program verification.

Meral Ozsoyoglu — Database systems; knowledge—based systems; data structures.

Gultekin Ozsoyoglu —Database systems; security; file organization; data structures.

Andy Podgurski — Computer architecture; VLSI system design; expert systems for CAD; fault tolerant computing; micro-computers.

Danial Saab — Computer architecture; VLSI system design and test; CAD design automation.

Lee J. White — Software engineering; software testing and verification.

Marcus R. Buchner — Computer simulation; distributed computer control; signal processing.

Arvind K. Bansal—Artificial intelligence, logic programming, parallel processing and computation

Paul J. Drongowski — Very-large scale integrated systems, computer architecture, graphics, software engineering computer-aided design.

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Department of Elecrical Engineering and Computer Science

Programs of Study

The Department of Electrical Engineering and Computer Science offers graduate programs leading to the degree of Master of Electrical Engineering (M. E. E.), Master of Science in Engineering (M. S. E.), Doctor of Philosophy (Ph. D.), and Doctor of Engineering (D. ENGR.). Graduate programs offered are Signal Processing, Communication Systems and Networks, Robotics and Intelligent Control, and Electromagnetic and Optics. Graduate courses are scheduled in the late afternoon or evening hours. Pangborn Hall, where classes usually meet, is adjacent to the Brookland/CUA Metro stop on the red line. The faculty is actively engaged in research areas including interaction of electromagnetic radiation with biological systems, image motion detection and estimation, image restoration and compression, neural network applications to communications, computer architectures, multiple satellite networks, time varying linear sys-

10