

COMPUTER SCIENCE AND ENGINEERING UCLA

COMPUTER SCIENCE AND ENGINEERING UCLA: A GATEWAY TO INNOVATION AND EXCELLENCE

COMPUTER SCIENCE AND ENGINEERING UCLA IS MORE THAN JUST A FIELD OF STUDY—IT'S A THRIVING HUB OF INNOVATION, RESEARCH, AND TECHNOLOGY LOCATED WITHIN ONE OF THE NATION'S TOP PUBLIC UNIVERSITIES. UCLA'S APPROACH TO COMPUTER SCIENCE AND ENGINEERING CREATES AN ENVIRONMENT WHERE STUDENTS AND RESEARCHERS ALIKE CAN PUSH THE BOUNDARIES OF WHAT'S POSSIBLE IN COMPUTING, ARTIFICIAL INTELLIGENCE, SOFTWARE DEVELOPMENT, AND HARDWARE DESIGN. IF YOU'RE CONSIDERING A CAREER IN TECH OR LOOKING FOR A PROGRAM THAT COMBINES RIGOROUS ACADEMICS WITH CUTTING-EDGE RESEARCH, UCLA'S DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING OFFERS A COMPELLING OPTION.

WHY CHOOSE COMPUTER SCIENCE AND ENGINEERING AT UCLA?

CHOOSING UCLA FOR COMPUTER SCIENCE AND ENGINEERING MEANS GAINING ACCESS TO A WORLD-CLASS EDUCATION EMBEDDED IN A DYNAMIC AND DIVERSE CAMPUS CULTURE. THE PROGRAM PRIDES ITSELF ON BALANCING THEORETICAL FOUNDATIONS WITH PRACTICAL SKILLS, PREPARING GRADUATES FOR BOTH ACADEMIA AND INDUSTRY. UCLA'S LOCATION IN LOS ANGELES, A MAJOR TECH AND ENTERTAINMENT HUB, ALSO PROVIDES SIGNIFICANT OPPORTUNITIES FOR INTERNSHIPS, NETWORKING, AND COLLABORATIONS WITH LEADING TECH COMPANIES.

STRONG ACADEMIC CURRICULUM

AT UCLA, THE COMPUTER SCIENCE AND ENGINEERING CURRICULUM IS DESIGNED TO COVER A BROAD SPECTRUM OF TOPICS, ENSURING STUDENTS DEVELOP A WELL-ROUNDED UNDERSTANDING OF THE DISCIPLINE. KEY AREAS OF STUDY INCLUDE:

- ALGORITHMS AND DATA STRUCTURES
- MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE
- COMPUTER SYSTEMS AND NETWORKING
- SOFTWARE ENGINEERING
- COMPUTER GRAPHICS AND VISUALIZATION
- CYBERSECURITY AND CRYPTOGRAPHY
- EMBEDDED SYSTEMS AND ROBOTICS

THIS DIVERSITY IN COURSEWORK ALLOWS STUDENTS TO TAILOR THEIR EDUCATION ACCORDING TO THEIR INTERESTS AND CAREER GOALS. WHETHER YOU'RE FASCINATED BY AI OR PASSIONATE ABOUT HARDWARE DESIGN, UCLA'S PROGRAM PROVIDES ROBUST PATHWAYS.

INTERDISCIPLINARY OPPORTUNITIES

ONE UNIQUE ASPECT OF UCLA'S COMPUTER SCIENCE AND ENGINEERING PROGRAM IS ITS STRONG EMPHASIS ON INTERDISCIPLINARY COLLABORATION. STUDENTS OFTEN WORK ALONGSIDE PEERS AND FACULTY FROM RELATED FIELDS SUCH AS BIOINFORMATICS, ELECTRICAL ENGINEERING, COGNITIVE SCIENCE, AND EVEN THE ARTS. THIS CROSS-POLLINATION OF IDEAS OFTEN LEADS TO INNOVATIVE PROJECTS THAT REFLECT REAL-WORLD COMPLEXITIES AND CHALLENGES.

RESEARCH EXCELLENCE IN COMPUTER SCIENCE AND ENGINEERING AT UCLA

RESEARCH LIES AT THE HEART OF UCLA'S COMPUTER SCIENCE AND ENGINEERING DEPARTMENT. THE UNIVERSITY HOSTS NUMEROUS RESEARCH LABS AND CENTERS WHERE STUDENTS AND FACULTY EXPLORE FRONTIER TOPICS—FROM QUANTUM COMPUTING TO NATURAL LANGUAGE PROCESSING.

NOTABLE RESEARCH LABS AND CENTERS

- **UCLA Center for Vision, Cognition, Learning, and Autonomy (VCLA):** Focuses on computer vision, machine learning, and autonomous systems.
- **Network Systems Lab:** Explores networking protocols, distributed systems, and cybersecurity.
- **UCLA Digital Humanities:** Bridges computer science with cultural studies, enabling new forms of analysis through computational methods.
- **Robotics and Embedded Systems Lab:** Develops advanced robotics, sensor networks, and embedded computing technologies.

Engaging with these labs offers students hands-on experience, mentorship from top researchers, and the chance to contribute to impactful discoveries.

STUDENT INVOLVEMENT IN RESEARCH

One of the perks of studying computer science and engineering at UCLA is the accessibility of research opportunities for undergraduates. The department encourages students to participate in research projects early, often leading to co-authored papers or presentations at conferences. Programs like the Undergraduate Research Scholars Program and Summer Research Mentorship provide structured pathways for students to engage deeply with faculty-led projects.

CAREER PROSPECTS AND INDUSTRY CONNECTIONS

Graduates from UCLA's computer science and engineering program consistently find themselves well-prepared for competitive roles in the tech industry, academia, and entrepreneurial ventures. The department's connections with Silicon Beach startups, established tech giants, and research institutions facilitate a healthy pipeline of job and internship opportunities.

INTERNSHIP AND JOB PLACEMENT

Thanks to UCLA's proximity to Los Angeles' booming tech scene, students have access to internships at companies like Google, Snap, SpaceX, and many innovative startups. The university's Career Center and departmental career advisors frequently host job fairs, networking events, and workshops to help students refine their resumes and interview skills.

ALUMNI NETWORK AND MENTORSHIP

UCLA boasts a strong and active alumni network in the fields of computer science and engineering. Graduates often return as guest speakers, mentors, or recruiters, providing current students with invaluable guidance and connections. This community aspect can be a great asset for those looking to navigate their early career paths.

STUDENT LIFE AND RESOURCES IN THE COMPUTER SCIENCE AND ENGINEERING DEPARTMENT

Beyond academics and research, UCLA offers a vibrant student life that enriches the overall experience in computer science and engineering.

CLUBS AND ORGANIZATIONS

STUDENTS CAN JOIN SEVERAL TECHNOLOGY-FOCUSED CLUBS SUCH AS:

- **ACM (ASSOCIATION FOR COMPUTING MACHINERY) AT UCLA:** PROVIDES WORKSHOPS, HACKATHONS, AND GUEST LECTURES.
- **WOMEN IN COMPUTING:** SUPPORTS FEMALE STUDENTS THROUGH MENTORSHIP, NETWORKING, AND COMMUNITY-BUILDING EVENTS.
- **UCLA HACKS:** ORGANIZES HACKATHONS THAT FOSTER CREATIVITY AND TECHNICAL SKILL DEVELOPMENT.

THESE ORGANIZATIONS NOT ONLY BUILD TECHNICAL SKILLS BUT ALSO HELP STUDENTS FORGE FRIENDSHIPS AND PROFESSIONAL NETWORKS.

STATE-OF-THE-ART FACILITIES

ACCESS TO CUTTING-EDGE LABS AND COMPUTING RESOURCES IS CRITICAL FOR ANY TECH STUDENT. UCLA'S FACILITIES INCLUDE HIGH-PERFORMANCE COMPUTING CLUSTERS, VIRTUAL REALITY LABS, AND SPECIALIZED HARDWARE FOR ROBOTICS AND EMBEDDED SYSTEMS PROJECTS. THESE RESOURCES COMPLEMENT CLASSROOM LEARNING AND ENABLE STUDENTS TO EXPERIMENT WITH REAL-WORLD APPLICATIONS.

TIPS FOR PROSPECTIVE STUDENTS INTERESTED IN COMPUTER SCIENCE AND ENGINEERING AT UCLA

IF YOU'RE AIMING TO JOIN UCLA'S COMPUTER SCIENCE AND ENGINEERING PROGRAM, HERE ARE A FEW POINTERS TO KEEP IN MIND:

1. **BUILD A STRONG FOUNDATION IN MATH AND PROGRAMMING:** UCLA'S CURRICULUM CAN BE CHALLENGING, SO HAVING SOLID SKILLS IN CALCULUS, DISCRETE MATH, AND AT LEAST ONE PROGRAMMING LANGUAGE (LIKE PYTHON OR JAVA) WILL GIVE YOU A HEAD START.
2. **ENGAGE EARLY WITH FACULTY AND RESEARCH:** DON'T HESITATE TO REACH OUT TO PROFESSORS WHOSE WORK INTERESTS YOU. EARLY INVOLVEMENT IN RESEARCH CAN ENRICH YOUR LEARNING AND STRENGTHEN YOUR RESUME.
3. **TAKE ADVANTAGE OF CAMPUS RESOURCES:** UTILIZE TUTORING CENTERS, CAREER SERVICES, AND STUDENT ORGANIZATIONS TO MAXIMIZE YOUR EXPERIENCE.
4. **STAY CURIOUS AND OPEN TO INTERDISCIPLINARY STUDIES:** THE TECH LANDSCAPE IS CONSTANTLY EVOLVING, AND UCLA'S ENVIRONMENT ENCOURAGES EXPLORING BEYOND TRADITIONAL COMPUTER SCIENCE BOUNDARIES.

COMPUTER SCIENCE AND ENGINEERING AT UCLA IS A GATEWAY TO A VIBRANT, INNOVATIVE, AND REWARDING CAREER. WITH A STRONG ACADEMIC FOUNDATION, RICH RESEARCH OPPORTUNITIES, AND A SUPPORTIVE COMMUNITY, IT'S NO WONDER UCLA REMAINS A TOP CHOICE FOR ASPIRING COMPUTER SCIENTISTS AND ENGINEERS. WHETHER YOU'RE DRAWN BY THE LATEST ADVANCEMENTS IN AI, THE CHALLENGE OF BUILDING COMPLEX SYSTEMS, OR THE EXCITEMENT OF STARTUP CULTURE, UCLA HAS THE RESOURCES AND ENVIRONMENT TO HELP YOU SUCCEED.

FREQUENTLY ASKED QUESTIONS

WHAT UNDERGRADUATE PROGRAMS ARE OFFERED BY THE COMPUTER SCIENCE AND ENGINEERING DEPARTMENT AT UCLA?

UCLA OFFERS A BACHELOR OF SCIENCE DEGREE IN COMPUTER SCIENCE THROUGH THE COMPUTER SCIENCE AND ENGINEERING DEPARTMENT, PROVIDING STUDENTS WITH A STRONG FOUNDATION IN ALGORITHMS, SOFTWARE ENGINEERING, AND SYSTEMS.

WHAT RESEARCH AREAS ARE PROMINENT IN UCLA'S COMPUTER SCIENCE AND ENGINEERING DEPARTMENT?

PROMINENT RESEARCH AREAS AT UCLA INCLUDE ARTIFICIAL INTELLIGENCE, MACHINE LEARNING, COMPUTER VISION, DATA SCIENCE, CYBERSECURITY, NETWORKING, ROBOTICS, AND THEORETICAL COMPUTER SCIENCE.

DOES UCLA'S COMPUTER SCIENCE AND ENGINEERING PROGRAM OFFER OPPORTUNITIES FOR UNDERGRADUATE RESEARCH?

YES, UCLA ENCOURAGES UNDERGRADUATE STUDENTS TO PARTICIPATE IN RESEARCH PROJECTS ALONGSIDE FACULTY, OFFERING VARIOUS RESEARCH LABS AND PROGRAMS LIKE THE UNDERGRADUATE RESEARCH SCHOLARS PROGRAM.

WHAT GRADUATE DEGREES ARE AVAILABLE IN COMPUTER SCIENCE AND ENGINEERING AT UCLA?

UCLA OFFERS MASTER OF SCIENCE (MS), MASTER OF APPLIED SCIENCE (MAS), AND DOCTOR OF PHILOSOPHY (PHD) DEGREES IN COMPUTER SCIENCE AND ENGINEERING, FOCUSING ON ADVANCED RESEARCH AND PROFESSIONAL DEVELOPMENT.

HOW DOES UCLA SUPPORT DIVERSITY AND INCLUSION IN ITS COMPUTER SCIENCE AND ENGINEERING DEPARTMENT?

UCLA PROMOTES DIVERSITY AND INCLUSION THROUGH INITIATIVES SUCH AS DIVERSITY SCHOLARSHIP PROGRAMS, STUDENT ORGANIZATIONS LIKE THE SOCIETY OF WOMEN ENGINEERS (SWE), AND OUTREACH ACTIVITIES TARGETING UNDERREPRESENTED GROUPS IN TECH.

WHAT IS THE JOB PLACEMENT RATE FOR UCLA COMPUTER SCIENCE AND ENGINEERING GRADUATES?

UCLA COMPUTER SCIENCE AND ENGINEERING GRADUATES HAVE A STRONG JOB PLACEMENT RATE, WITH MANY SECURING POSITIONS AT LEADING TECH COMPANIES SUCH AS GOOGLE, MICROSOFT, AMAZON, AND IN STARTUPS OR PURSUING GRADUATE STUDIES.

ARE THERE ANY NOTABLE ALUMNI FROM UCLA'S COMPUTER SCIENCE AND ENGINEERING DEPARTMENT?

YES, NOTABLE ALUMNI INCLUDE INFLUENTIAL TECH ENTREPRENEURS, RESEARCHERS, AND LEADERS IN INDUSTRY AND ACADEMIA, CONTRIBUTING SIGNIFICANTLY TO FIELDS LIKE SOFTWARE DEVELOPMENT, AI, AND HARDWARE ENGINEERING.

WHAT FACILITIES AND RESOURCES ARE AVAILABLE TO COMPUTER SCIENCE AND ENGINEERING STUDENTS AT UCLA?

STUDENTS HAVE ACCESS TO STATE-OF-THE-ART COMPUTER LABS, RESEARCH CENTERS, HIGH-PERFORMANCE COMPUTING RESOURCES, AND COLLABORATIVE WORKSPACES TO SUPPORT BOTH COURSEWORK AND INNOVATIVE RESEARCH PROJECTS.

ADDITIONAL RESOURCES

COMPUTER SCIENCE AND ENGINEERING UCLA: AN IN-DEPTH EXPLORATION OF EXCELLENCE AND INNOVATION

COMPUTER SCIENCE AND ENGINEERING UCLA STANDS AS A BEACON OF ACADEMIC RIGOR AND CUTTING-EDGE RESEARCH WITHIN THE UNIVERSITY OF CALIFORNIA SYSTEM. RENOWNED FOR ITS INTERDISCIPLINARY APPROACH AND COMMITMENT TO TECHNOLOGICAL ADVANCEMENT, UCLA'S COMPUTER SCIENCE AND ENGINEERING DEPARTMENT CONSISTENTLY SHAPES THE FUTURE OF COMPUTING.

THIS ANALYTICAL REVIEW DELVES INTO THE PROGRAM'S STRUCTURE, RESEARCH STRENGTHS, EDUCATIONAL OFFERINGS, AND HOW IT POSITIONS ITSELF AMONG TOP-TIER INSTITUTIONS NATIONWIDE.

OVERVIEW OF COMPUTER SCIENCE AND ENGINEERING AT UCLA

UCLA'S COMPUTER SCIENCE AND ENGINEERING (CSE) PROGRAM OPERATES UNDER THE AUSPICES OF THE HENRY SAMUELI SCHOOL OF ENGINEERING AND APPLIED SCIENCE. WITH A FACULTY ROSTER BOASTING AWARD-WINNING RESEARCHERS AND INDUSTRY VETERANS, THE PROGRAM EMPHASIZES BOTH THEORETICAL FOUNDATIONS AND PRACTICAL APPLICATIONS. THE CURRICULUM IS DESIGNED TO PREPARE STUDENTS FOR CHALLENGES IN SOFTWARE DEVELOPMENT, ARTIFICIAL INTELLIGENCE, CYBERSECURITY, DATA SCIENCE, AND HARDWARE SYSTEMS.

IN COMPARISON TO PEER INSTITUTIONS LIKE UC BERKELEY AND STANFORD, UCLA'S CSE PROGRAM HOLDS A COMPETITIVE EDGE IN AREAS SUCH AS MULTIMEDIA COMPUTING, NETWORKING, AND MACHINE LEARNING. ACCORDING TO THE U.S. NEWS & WORLD REPORT RANKINGS, UCLA CONSISTENTLY PLACES WITHIN THE TOP 20 FOR COMPUTER SCIENCE GRADUATE PROGRAMS, REFLECTING ITS GROWING INFLUENCE AND RESEARCH OUTPUT.

ACADEMIC PROGRAMS AND CURRICULUM STRUCTURE

THE DEPARTMENT OFFERS A DIVERSE RANGE OF DEGREE OPTIONS, INCLUDING BACHELOR OF SCIENCE (B.S.) IN COMPUTER SCIENCE, A BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND ENGINEERING, MASTER OF SCIENCE (M.S.), AND PH.D. PROGRAMS. THESE TRACKS ACCOMMODATE STUDENTS AIMING FOR INDUSTRY CAREERS OR ACADEMIC RESEARCH PATHS.

UNDERGRADUATE PROGRAM HIGHLIGHTS

THE UNDERGRADUATE CURRICULUM STRIKES A BALANCE BETWEEN CORE COMPUTER SCIENCE PRINCIPLES AND ENGINEERING METHODOLOGIES. STUDENTS TAKE FOUNDATIONAL COURSES IN ALGORITHMS, DATA STRUCTURES, COMPUTER ARCHITECTURE, AND OPERATING SYSTEMS, ALONGSIDE ENGINEERING SUBJECTS SUCH AS DIGITAL LOGIC DESIGN AND SIGNAL PROCESSING.

MOREOVER, THE PROGRAM ENCOURAGES HANDS-ON LEARNING THROUGH CAPSTONE PROJECTS AND INTERNSHIPS, OFTEN FACILITATED BY UCLA'S PROXIMITY TO SILICON BEACH—AN EMERGING TECHNOLOGY HUB IN LOS ANGELES. THIS GEOGRAPHIC ADVANTAGE SUPPORTS ROBUST INDUSTRY PARTNERSHIPS, ENABLING STUDENTS TO GAIN REAL-WORLD EXPERIENCE AND NETWORKING OPPORTUNITIES.

GRADUATE STUDIES AND RESEARCH OPPORTUNITIES

GRADUATE STUDENTS AT UCLA BENEFIT FROM A RESEARCH-INTENSIVE ENVIRONMENT WITH ACCESS TO CUTTING-EDGE LABS AND FUNDING. DOCTORAL CANDIDATES OFTEN COLLABORATE WITH FACULTY ON PROJECTS FUNDED BY AGENCIES SUCH AS THE NATIONAL SCIENCE FOUNDATION (NSF) AND THE DEPARTMENT OF DEFENSE (DoD).

RESEARCH AREAS INCLUDE BUT ARE NOT LIMITED TO:

- ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
- COMPUTER VISION AND GRAPHICS
- CYBERSECURITY AND PRIVACY
- NETWORKING AND DISTRIBUTED SYSTEMS

- ROBOTICS AND AUTONOMOUS SYSTEMS

THIS RANGE REFLECTS THE DEPARTMENT'S COMMITMENT TO ADDRESSING BOTH FOUNDATIONAL THEORY AND EMERGING TECHNOLOGICAL CHALLENGES.

FACULTY EXPERTISE AND INDUSTRY COLLABORATION

UCLA'S COMPUTER SCIENCE AND ENGINEERING FACULTY COMPRISES LEADERS IN THEIR RESPECTIVE FIELDS. PROFESSORS HAVE BEEN RECOGNIZED WITH PRESTIGIOUS AWARDS SUCH AS THE ACM FELLOWSHIPS AND IEEE MEDALS. THEIR RESEARCH OUTPUT OFTEN RESULTS IN INFLUENTIAL PUBLICATIONS AND PATENTS, REINFORCING UCLA'S REPUTATION AS A RESEARCH POWERHOUSE.

THE DEPARTMENT'S COLLABORATION WITH INDUSTRY GIANTS LIKE GOOGLE, MICROSOFT, AND AMAZON FOSTERS AN ECOSYSTEM WHERE ACADEMIC INQUIRY MEETS COMMERCIAL INNOVATION. THROUGH SPONSORED RESEARCH PROJECTS AND GUEST LECTURES, STUDENTS GAIN INSIGHTS INTO CURRENT INDUSTRY TRENDS AND DEMANDS.

INTERDISCIPLINARY INITIATIVES

ONE DISTINCTIVE FEATURE OF THE COMPUTER SCIENCE AND ENGINEERING PROGRAM AT UCLA IS ITS INTERDISCIPLINARY APPROACH. THE DEPARTMENT ACTIVELY PARTNERS WITH OTHER UCLA UNITS, SUCH AS THE SCHOOL OF MEDICINE, THE INSTITUTE FOR PURE AND APPLIED MATHEMATICS, AND THE ANDERSON SCHOOL OF MANAGEMENT. THIS SYNERGY PROMOTES NOVEL APPLICATIONS OF COMPUTING IN FIELDS LIKE HEALTHCARE INFORMATICS, FINANCIAL ENGINEERING, AND BIOINFORMATICS.

FACILITIES AND RESOURCES

MODERN INFRASTRUCTURE SUPPORTS THE DEPARTMENT'S EDUCATIONAL AND RESEARCH MISSIONS. THE BOELTER HALL COMPLEX HOUSES STATE-OF-THE-ART COMPUTER LABS, HIGH-PERFORMANCE COMPUTING CLUSTERS, AND COLLABORATIVE WORKSPACES. ADDITIONALLY, UCLA INVESTS IN CLOUD COMPUTING AND AI PLATFORMS, ENSURING STUDENTS AND FACULTY HAVE ACCESS TO THE LATEST TECHNOLOGICAL TOOLS.

MOREOVER, THE UNIVERSITY'S COMMITMENT TO DIVERSITY AND INCLUSION IS EVIDENT IN ITS SUPPORT PROGRAMS AIMED AT UNDERREPRESENTED GROUPS IN STEM. THESE INITIATIVES ENHANCE THE LEARNING ENVIRONMENT AND CULTIVATE A BROAD TALENT PIPELINE.

CAREER PROSPECTS AND ALUMNI IMPACT

GRADUATES FROM UCLA'S COMPUTER SCIENCE AND ENGINEERING PROGRAMS ENJOY STRONG EMPLOYMENT OUTCOMES. THE DEPARTMENT REPORTS HIGH JOB PLACEMENT RATES WITHIN SIX MONTHS OF GRADUATION, WITH ALUMNI WORKING IN LEADING TECHNOLOGY FIRMS, STARTUPS, AND ACADEMIA.

NOTABLE ALUMNI INCLUDE ENTREPRENEURS WHO HAVE FOUNDED SUCCESSFUL TECH STARTUPS, AS WELL AS RESEARCHERS CONTRIBUTING TO ADVANCEMENTS IN ARTIFICIAL INTELLIGENCE AND CYBERSECURITY. THIS NETWORK NOT ONLY EVIDENCES THE QUALITY OF EDUCATION BUT ALSO SERVES AS A VALUABLE RESOURCE FOR CURRENT STUDENTS SEEKING MENTORSHIP AND CAREER GUIDANCE.

CHALLENGES AND AREAS FOR GROWTH

WHILE UCLA'S COMPUTER SCIENCE AND ENGINEERING PROGRAM IS ROBUST, IT FACES CHALLENGES COMMON TO MANY TOP-TIER PROGRAMS. THESE INCLUDE MANAGING INCREASING ENROLLMENT DEMAND, ENSURING ADEQUATE FACULTY-TO-STUDENT RATIOS, AND CONTINUOUSLY UPDATING CURRICULA TO KEEP PACE WITH RAPID TECHNOLOGICAL CHANGES.

EFFORTS TO EXPAND ONLINE COURSE OFFERINGS AND HYBRID LEARNING MODELS ARE UNDERWAY, AIMING TO INCREASE ACCESSIBILITY WITHOUT COMPROMISING ACADEMIC QUALITY. ADDITIONALLY, THE DEPARTMENT IS EXPLORING WAYS TO DEEPEN INDUSTRY PARTNERSHIPS TO SECURE MORE INTERNSHIP AND FUNDING OPPORTUNITIES.

POSITIONING WITHIN THE BROADER COMPUTER SCIENCE EDUCATION LANDSCAPE

IN THE COMPETITIVE LANDSCAPE OF COMPUTER SCIENCE EDUCATION, UCLA DISTINGUISHES ITSELF THROUGH A BLEND OF RIGOROUS ACADEMICS, IMPACTFUL RESEARCH, AND STRATEGIC LOCATION ADVANTAGES. WHILE EAST COAST INSTITUTIONS LIKE MIT AND CARNEGIE MELLON DOMINATE IN CERTAIN SPECIALIZATIONS, UCLA'S STRENGTH IN MULTIMEDIA COMPUTING, AI, AND INTERDISCIPLINARY COLLABORATION OFFERS UNIQUE VALUE PROPOSITIONS FOR STUDENTS.

THE UNIVERSITY'S ACTIVE ENGAGEMENT WITH SOUTHERN CALIFORNIA'S TECH ECOSYSTEM REINFORCES ITS RELEVANCE AND APPEAL. AS ARTIFICIAL INTELLIGENCE, BIG DATA, AND CYBERSECURITY CONTINUE TO EVOLVE, UCLA'S COMPUTER SCIENCE AND ENGINEERING DEPARTMENT IS POISED TO REMAIN AT THE FOREFRONT OF INNOVATION.

THE DYNAMIC NATURE OF THE FIELD DEMANDS CONTINUAL ADAPTATION, AND UCLA'S COMMITMENT TO FOSTERING A VIBRANT, INCLUSIVE, AND FORWARD-THINKING ACADEMIC ENVIRONMENT ENSURES IT WILL CONTINUE TO SHAPE THE NEXT GENERATION OF COMPUTER SCIENTISTS AND ENGINEERS.

Computer Science And Engineering Ucla

computer science and engineering ucla: The Unofficial, Unbiased Guide to the 331 Most Interesting Colleges 2005 Kaplan, Inc, 2004-06-22 Engaging and informative, The Unofficial, Unbiased Guide to the 331 Most Interesting Colleges 2005 is a must-read reference for every college-bound student.

computer science and engineering ucla: Probabilistic and Causal Inference Hector Geffner, Rina Dechter, Joseph Halpern, 2022-03-10 Professor Judea Pearl won the 2011 Turing Award "for fundamental contributions to artificial intelligence through the development of a calculus for probabilistic and causal reasoning." This book contains the original articles that led to the award, as well as other seminal works, divided into four parts: heuristic search, probabilistic reasoning, causality, first period (1988-2001), and causality, recent period (2002-2020). Each of these parts starts with an introduction written by Judea Pearl. The volume also contains original, contributed articles by leading researchers that analyze, extend, or assess the influence of Pearl's work in different fields: from AI, Machine Learning, and Statistics to Cognitive Science, Philosophy, and the Social Sciences. The first part of the volume includes a biography, a transcript of his Turing Award Lecture, two interviews, and a selected bibliography annotated by him.

computer science and engineering ucla: American Universities and Colleges Praeger Publishers, 2010-04-16 For well over a half century, American Universities and Colleges has been the most comprehensive and highly respected directory of four-year institutions of higher education in the United States. A two-volume set that Choice magazine hailed as a most important resource in its November 2006 issue, this revised edition features the most up-to-date statistical data available

to guide students in making a smart yet practical decision in choosing the university or college of their dreams. In addition, the set serves as an indispensable reference source for parents, college advisors, educators, and public, academic, and high school librarians. These two volumes provide extensive information on 1,900 institutions of higher education, including all accredited colleges and universities that offer at least the baccalaureate degree. This essential resource offers pertinent, statistical data on such topics as tuition, room and board; admission requirements; financial aid; enrollments; student life; library holdings; accelerated and study abroad programs; departments and teaching staff; buildings and grounds; and degrees conferred. Volume two of the set provides four indexes, including an institutional Index, a subject accreditation index, a levels of degrees offered index, and a tabular index of summary data by state. These helpful indexes allow readers to find information easily and to make comparisons among institutions effectively. Also contained within the text are charts and tables that provide easy access to comparative data on relevant topics.

computer science and engineering ucla: Ambient Intelligence Werner Weber, Jan Rabaey, Emile H.L. Aarts, 2005-12-12 Ambient intelligence is the vision of a technology that will become invisibly embedded in our natural surroundings, present whenever we need it, enabled by simple and effortless interactions, attuned to all our senses, adaptive to users and context-sensitive, and autonomous. High-quality information access and personalized content must be available to everybody, anywhere, and at any time. This book addresses ambient intelligence used to support human contacts and accompany an individual's path through the complicated modern world. From the technical standpoint, distributed electronic intelligence is addressed as hardware vanishing into the background. Devices used for ambient intelligence are small, low-power, low weight, and (very importantly) low-cost; they collaborate or interact with each other; and they are redundant and error-tolerant. This means that the failure of one device will not cause failure of the whole system. Since wired connections often do not exist, radio methods will play an important role for data transfer. This book addresses various aspects of ambient intelligence, from applications that are imminent since they use essentially existing technologies, to ambitious ideas whose realization is still far away, due to major unsolved technical challenges.

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computer science and engineering ucla: Algorithms and Protocols for Wireless Sensor Networks Azzedine Boukerche, 2008-11-03 A one-stop resource for the use of algorithms and protocols in wireless sensor networks From an established international researcher in the field, this edited volume provides readers with comprehensive coverage of the fundamental algorithms and protocols for wireless sensor networks. It identifies the research that needs to be conducted on a number of levels to design and assess the deployment of wireless sensor networks, and provides an in-depth analysis of the development of the next generation of heterogeneous wireless sensor networks. Divided into nineteen succinct chapters, the book covers: mobility management and resource allocation algorithms; communication models; energy and power consumption algorithms; performance modeling and simulation; authentication and reputation mechanisms; algorithms for wireless sensor and mesh networks; and algorithm methods for pervasive and ubiquitous computing; among other topics. Complete with a set of challenging exercises, this book is a valuable resource for electrical engineers, computer engineers, network engineers, and computer science specialists. Useful for instructors and students alike, Algorithms and Protocols for Wireless Sensor Networks is an ideal textbook for advanced undergraduate and graduate courses in computer science, electrical

engineering, and network engineering.

computer science and engineering ucla: Biomedical Image Analysis and Machine Learning Technologies: Applications and Techniques Gonzalez, Fabio A., Romero, Eduardo, 2009-12-31 Medical images are at the base of many routine clinical decisions and their influence continues to increase in many fields of medicine. Since the last decade, computers have become an invaluable tool for supporting medical image acquisition, processing, organization and analysis. *Biomedical Image Analysis and Machine Learning Technologies: Applications and Techniques* provides a panorama of the current boundary between biomedical complexity coming from the medical image context and the multiple techniques which have been used for solving many of these problems. This innovative publication serves as a leading industry reference as well as a source of creative ideas for applications of medical issues.

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computer science and engineering ucla: *Medical Image Computing and Computer Assisted Intervention - MICCAI 2021* Marleen de Bruijne, Philippe C. Cattin, Stéphane Cotin, Nicolas Padoy, Stefanie Speidel, Yefeng Zheng, Caroline Essert, 2021-09-23 The eight-volume set LNCS 12901, 12902, 12903, 12904, 12905, 12906, 12907, and 12908 constitutes the refereed proceedings of the 24th International Conference on Medical Image Computing and Computer-Assisted Intervention, MICCAI 2021, held in Strasbourg, France, in September/October 2021.* The 531 revised full papers presented were carefully reviewed and selected from 1630 submissions in a double-blind review process. The papers are organized in the following topical sections: Part I: image segmentation Part II: machine learning - self-supervised learning; machine learning - semi-supervised learning; and machine learning - weakly supervised learning Part III: machine learning - advances in machine learning theory; machine learning - attention models; machine learning - domain adaptation; machine learning - federated learning; machine learning - interpretability / explainability; and machine learning - uncertainty Part IV: image registration; image-guided interventions and surgery; surgical data science; surgical planning and simulation; surgical skill and work flow analysis; and surgical visualization and mixed, augmented and virtual reality Part V: computer aided diagnosis; integration of imaging with non-imaging biomarkers; and outcome/disease prediction Part VI: image reconstruction; clinical applications - cardiac; and clinical applications - vascular Part VII: clinical applications - abdomen; clinical applications - breast; clinical applications - dermatology; clinical applications - fetal imaging; clinical applications - lung; clinical applications - neuroimaging - brain development; clinical applications - neuroimaging - DWI and tractography; clinical applications - neuroimaging - functional brain networks; clinical applications - neuroimaging - others; and clinical applications - oncology Part VIII: clinical applications - ophthalmology; computational (integrative) pathology; modalities - microscopy; modalities - histopathology; and modalities - ultrasound *The conference was held virtually.

computer science and engineering ucla: Vagus Nerve Stimulation Peter Staats, Cenk Ayata, Imanuel Lerman, Alaa Abd-Elseyed, 2024-11-16 In the complex realm of our physiology, the vagus nerve stands as a silent orchestrator, influencing health and disease in ways that have long been underestimated. *Vagus Nerve Stimulation* delves into the profound significance of this 10th cranial nerve, tracing its course through the body and illuminating its role as a vital component of the parasympathetic nervous system. This comprehensive reference, contributed by leading experts at the forefront of medical science, unveils the groundbreaking field of vagus nerve stimulation—a non-invasive approach to harness the body's innate potential for health optimization, inflammation control, and disease modification. Contributed by leading experts in the field, this comprehensive volume serves as a compendium of current knowledge about stimulating the vagus nerve in many different disease states. This book starts with the foundational insights in Basic Science and Technical Considerations. From there, it continues to Neurologic Conditions, where chapters explore applications for epilepsy, cluster headaches, and concussions. *Evolving Therapy for Neurologic Conditions* introduces cutting-edge treatments for acute ischemic stroke, synaptic plasticity, and

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