

CSUF COMPUTER SCIENCE DEPARTMENT

CSUF COMPUTER SCIENCE DEPARTMENT IS A LEADING ACADEMIC DIVISION WITHIN CALIFORNIA STATE UNIVERSITY, FULLERTON, DEDICATED TO PROVIDING COMPREHENSIVE EDUCATION AND RESEARCH OPPORTUNITIES IN COMPUTER SCIENCE AND RELATED FIELDS. RENOWNED FOR ITS COMMITMENT TO EXCELLENCE, THE DEPARTMENT OFFERS A DIVERSE RANGE OF UNDERGRADUATE AND GRADUATE PROGRAMS THAT PREPARE STUDENTS FOR DYNAMIC CAREERS IN TECHNOLOGY, SOFTWARE DEVELOPMENT, DATA SCIENCE, AND CYBERSECURITY. THE CSUF COMPUTER SCIENCE DEPARTMENT FOSTERS A COLLABORATIVE LEARNING ENVIRONMENT SUPPORTED BY EXPERIENCED FACULTY, MODERN FACILITIES, AND INDUSTRY PARTNERSHIPS. THIS ARTICLE EXPLORES THE DEPARTMENT'S ACADEMIC PROGRAMS, FACULTY EXPERTISE, RESEARCH INITIATIVES, STUDENT RESOURCES, AND CAREER DEVELOPMENT SERVICES. ADDITIONALLY, IT HIGHLIGHTS HOW THE CSUF COMPUTER SCIENCE DEPARTMENT CONTRIBUTES TO INNOVATION AND COMMUNITY ENGAGEMENT. THE FOLLOWING SECTIONS PROVIDE AN IN-DEPTH OVERVIEW OF EACH ASPECT OF THE DEPARTMENT.

- ACADEMIC PROGRAMS
- FACULTY AND RESEARCH
- STUDENT RESOURCES AND SUPPORT
- INDUSTRY CONNECTIONS AND CAREER OPPORTUNITIES
- COMMUNITY ENGAGEMENT AND OUTREACH

ACADEMIC PROGRAMS

THE CSUF COMPUTER SCIENCE DEPARTMENT OFFERS A VARIETY OF ACADEMIC PROGRAMS DESIGNED TO EQUIP STUDENTS WITH FOUNDATIONAL KNOWLEDGE AND ADVANCED SKILLS IN COMPUTER SCIENCE. THESE PROGRAMS EMPHASIZE BOTH THEORETICAL UNDERSTANDING AND PRACTICAL APPLICATION, ENSURING GRADUATES ARE WELL-PREPARED FOR THE EVOLVING DEMANDS OF THE TECHNOLOGY SECTOR.

UNDERGRADUATE DEGREES

THE DEPARTMENT PROVIDES A BACHELOR OF SCIENCE IN COMPUTER SCIENCE THAT COVERS CORE AREAS SUCH AS PROGRAMMING, ALGORITHMS, COMPUTER ARCHITECTURE, AND SOFTWARE ENGINEERING. STUDENTS CAN ALSO CHOOSE FROM SPECIALIZED TRACKS THAT FOCUS ON AREAS LIKE ARTIFICIAL INTELLIGENCE, CYBERSECURITY, AND DATA ANALYTICS. THE CURRICULUM IS REGULARLY UPDATED TO INCORPORATE EMERGING TECHNOLOGIES AND INDUSTRY TRENDS.

GRADUATE PROGRAMS

GRADUATE OFFERINGS INCLUDE A MASTER OF SCIENCE IN COMPUTER SCIENCE, WHICH ALLOWS STUDENTS TO DEEPEN THEIR EXPERTISE AND ENGAGE IN RESEARCH PROJECTS. THE PROGRAM SUPPORTS VARIOUS CONCENTRATIONS, INCLUDING MACHINE LEARNING, NETWORK SECURITY, AND CLOUD COMPUTING. GRADUATE STUDENTS BENEFIT FROM CLOSE FACULTY MENTORSHIP AND ACCESS TO ADVANCED COMPUTING RESOURCES.

CERTIFICATE AND MINOR OPTIONS

TO COMPLEMENT THEIR MAJOR STUDIES, STUDENTS CAN PURSUE MINORS OR CERTIFICATE PROGRAMS IN RELATED DISCIPLINES SUCH AS SOFTWARE DEVELOPMENT, INFORMATION SYSTEMS, OR DATA SCIENCE. THESE OPTIONS PROVIDE ADDITIONAL SPECIALIZATION AND ENHANCE EMPLOYABILITY IN SPECIFIC SECTORS OF THE TECHNOLOGY INDUSTRY.

FACULTY AND RESEARCH

THE CSUF COMPUTER SCIENCE DEPARTMENT PRIDES ITSELF ON A DISTINGUISHED FACULTY COMPOSED OF EXPERIENCED EDUCATORS AND ACTIVE RESEARCHERS. FACULTY MEMBERS BRING A WEALTH OF KNOWLEDGE FROM ACADEMIA AND INDUSTRY, CONTRIBUTING TO A ROBUST LEARNING ENVIRONMENT THAT BRIDGES THEORY AND PRACTICE.

RESEARCH AREAS

FACULTY RESEARCH SPANS A WIDE RANGE OF COMPUTER SCIENCE DOMAINS, INCLUDING BUT NOT LIMITED TO:

- ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
- CYBERSECURITY AND INFORMATION ASSURANCE
- DATA SCIENCE AND BIG DATA ANALYTICS
- HUMAN-COMPUTER INTERACTION
- SOFTWARE ENGINEERING AND DEVELOPMENT METHODOLOGIES
- NETWORKING AND DISTRIBUTED SYSTEMS

THIS DIVERSITY IN RESEARCH INTERESTS PROVIDES STUDENTS WITH OPPORTUNITIES TO ENGAGE IN CUTTING-EDGE PROJECTS AND CONTRIBUTE TO SCHOLARLY PUBLICATIONS AND CONFERENCES.

FACULTY ACHIEVEMENTS

MANY FACULTY MEMBERS HAVE RECEIVED PRESTIGIOUS AWARDS, GRANTS, AND RECOGNITION FOR THEIR CONTRIBUTIONS TO BOTH EDUCATION AND RESEARCH. THEIR COMMITMENT TO MENTORSHIP SUPPORTS STUDENT SUCCESS AND FOSTERS AN ACADEMIC CULTURE OF INNOVATION AND INQUIRY.

STUDENT RESOURCES AND SUPPORT

THE CSUF COMPUTER SCIENCE DEPARTMENT OFFERS EXTENSIVE RESOURCES TO SUPPORT STUDENT LEARNING, ACADEMIC SUCCESS, AND PROFESSIONAL DEVELOPMENT. THESE SERVICES ARE INTEGRAL TO FOSTERING A SUPPORTIVE AND PRODUCTIVE EDUCATIONAL EXPERIENCE.

ADVISING AND MENTORSHIP

STUDENTS RECEIVE PERSONALIZED ACADEMIC ADVISING TO HELP PLAN COURSEWORK, SELECT SPECIALIZATIONS, AND MEET GRADUATION REQUIREMENTS. FACULTY MENTORS GUIDE RESEARCH ENDEAVORS AND CAREER PLANNING, ENSURING STUDENTS MAKE INFORMED DECISIONS THROUGHOUT THEIR ACADEMIC JOURNEY.

LABORATORIES AND FACILITIES

THE DEPARTMENT MAINTAINS STATE-OF-THE-ART COMPUTER LABS EQUIPPED WITH THE LATEST SOFTWARE AND HARDWARE TECHNOLOGIES. THESE FACILITIES PROVIDE STUDENTS WITH HANDS-ON EXPERIENCE IN PROGRAMMING, SIMULATION, AND SYSTEM DESIGN PROJECTS.

STUDENT ORGANIZATIONS

SEVERAL STUDENT-LED ORGANIZATIONS AFFILIATED WITH THE DEPARTMENT PROMOTE NETWORKING, SKILL DEVELOPMENT, AND COMMUNITY ENGAGEMENT. THESE GROUPS ORGANIZE WORKSHOPS, HACKATHONS, AND GUEST LECTURES TO ENHANCE THE EDUCATIONAL EXPERIENCE OUTSIDE THE CLASSROOM.

INDUSTRY CONNECTIONS AND CAREER OPPORTUNITIES

THE CSUF COMPUTER SCIENCE DEPARTMENT MAINTAINS STRONG TIES WITH INDUSTRY PARTNERS, FACILITATING INTERNSHIPS, COOPERATIVE EDUCATION, AND JOB PLACEMENT OPPORTUNITIES FOR STUDENTS AND GRADUATES.

INTERNSHIP PROGRAMS

COLLABORATIONS WITH LEADING TECHNOLOGY COMPANIES ENABLE STUDENTS TO GAIN PRACTICAL WORK EXPERIENCE THROUGH INTERNSHIPS. THESE OPPORTUNITIES PROVIDE VALUABLE EXPOSURE TO REAL-WORLD CHALLENGES AND PROFESSIONAL ENVIRONMENTS.

CAREER SERVICES

THE DEPARTMENT OFFERS CAREER COUNSELING, RESUME WORKSHOPS, AND INTERVIEW PREPARATION TO HELP STUDENTS TRANSITION SMOOTHLY INTO THE WORKFORCE. REGULAR CAREER FAIRS AND EMPLOYER NETWORKING EVENTS CONNECT STUDENTS WITH POTENTIAL EMPLOYERS IN VARIOUS SECTORS, INCLUDING SOFTWARE DEVELOPMENT, FINANCE, HEALTHCARE, AND GOVERNMENT.

ALUMNI NETWORK

AN ACTIVE ALUMNI NETWORK SUPPORTS CURRENT STUDENTS BY PROVIDING MENTORSHIP, INDUSTRY INSIGHTS, AND JOB REFERRALS. THE NETWORK ALSO FOSTERS LIFELONG CONNECTIONS THAT BENEFIT GRADUATES THROUGHOUT THEIR PROFESSIONAL CAREERS.

COMMUNITY ENGAGEMENT AND OUTREACH

THE CSUF COMPUTER SCIENCE DEPARTMENT IS COMMITTED TO CONTRIBUTING TO THE WIDER COMMUNITY THROUGH EDUCATIONAL OUTREACH, PARTNERSHIPS, AND PUBLIC EVENTS THAT PROMOTE COMPUTER SCIENCE AWARENESS AND INCLUSIVITY.

K-12 OUTREACH PROGRAMS

THE DEPARTMENT ORGANIZES WORKSHOPS, CODING CAMPS, AND STEM EVENTS AIMED AT LOCAL K-12 STUDENTS TO INSPIRE INTEREST IN COMPUTER SCIENCE FROM AN EARLY AGE. THESE INITIATIVES HELP BUILD A DIVERSE PIPELINE OF FUTURE TECHNOLOGY PROFESSIONALS.

PUBLIC LECTURES AND WORKSHOPS

REGULARLY SCHEDULED PUBLIC EVENTS FEATURE PRESENTATIONS BY FACULTY, INDUSTRY EXPERTS, AND ALUMNI. THESE FORUMS PROVIDE OPPORTUNITIES FOR KNOWLEDGE SHARING AND COMMUNITY ENGAGEMENT ON CONTEMPORARY ISSUES IN TECHNOLOGY.

COLLABORATIONS WITH NONPROFITS AND INDUSTRY

PARTNERSHIPS WITH NONPROFITS AND LOCAL BUSINESSES SUPPORT PROJECTS THAT ADDRESS SOCIETAL CHALLENGES THROUGH TECHNOLOGY. THESE COLLABORATIONS ENHANCE THE PRACTICAL IMPACT OF THE DEPARTMENT'S RESEARCH AND EDUCATIONAL ACTIVITIES.

FREQUENTLY ASKED QUESTIONS

WHAT DEGREE PROGRAMS ARE OFFERED BY THE CSUF COMPUTER SCIENCE DEPARTMENT?

THE CSUF COMPUTER SCIENCE DEPARTMENT OFFERS BACHELOR OF SCIENCE (BS) DEGREES IN COMPUTER SCIENCE, SOFTWARE ENGINEERING, AND INFORMATION SYSTEMS, AS WELL AS A MASTER OF SCIENCE (MS) IN COMPUTER SCIENCE.

DOES CSUF COMPUTER SCIENCE DEPARTMENT PROVIDE OPPORTUNITIES FOR RESEARCH?

YES, THE CSUF COMPUTER SCIENCE DEPARTMENT ENCOURAGES UNDERGRADUATE AND GRADUATE STUDENTS TO PARTICIPATE IN RESEARCH PROJECTS ALONGSIDE FACULTY MEMBERS IN AREAS SUCH AS ARTIFICIAL INTELLIGENCE, CYBERSECURITY, DATA SCIENCE, AND SOFTWARE ENGINEERING.

ARE THERE INTERNSHIP OPPORTUNITIES AVAILABLE THROUGH THE CSUF COMPUTER SCIENCE DEPARTMENT?

YES, THE DEPARTMENT HAS PARTNERSHIPS WITH LOCAL TECH COMPANIES AND ORGANIZATIONS TO PROVIDE STUDENTS WITH INTERNSHIP OPPORTUNITIES THAT OFFER REAL-WORLD EXPERIENCE IN COMPUTER SCIENCE AND RELATED FIELDS.

WHAT STUDENT ORGANIZATIONS ARE ASSOCIATED WITH THE CSUF COMPUTER SCIENCE DEPARTMENT?

STUDENTS IN THE CSUF COMPUTER SCIENCE DEPARTMENT CAN JOIN ORGANIZATIONS SUCH AS THE ASSOCIATION FOR COMPUTING MACHINERY (ACM) STUDENT CHAPTER, WOMEN IN COMPUTING, AND THE CYBERSECURITY CLUB, WHICH PROVIDE NETWORKING, PROFESSIONAL DEVELOPMENT, AND COMMUNITY ENGAGEMENT.

HOW DOES THE CSUF COMPUTER SCIENCE DEPARTMENT SUPPORT CAREER PLACEMENT?

THE DEPARTMENT OFFERS CAREER COUNSELING, RESUME WORKSHOPS, JOB FAIRS, AND NETWORKING EVENTS TO HELP STUDENTS CONNECT WITH POTENTIAL EMPLOYERS AND SECURE JOBS OR INTERNSHIPS IN THE TECH INDUSTRY.

WHAT ARE THE ADMISSION REQUIREMENTS FOR THE CSUF COMPUTER SCIENCE UNDERGRADUATE PROGRAM?

APPLICANTS MUST MEET CALIFORNIA STATE UNIVERSITY FULLERTON'S GENERAL ADMISSION REQUIREMENTS, COMPLETE PREREQUISITE COURSES IN MATHEMATICS AND SCIENCE, AND DEMONSTRATE PROFICIENCY IN PROGRAMMING AND PROBLEM-SOLVING SKILLS.

DOES THE CSUF COMPUTER SCIENCE DEPARTMENT OFFER ONLINE OR HYBRID COURSES?

YES, CSUF OFFERS SOME COMPUTER SCIENCE COURSES ONLINE OR IN A HYBRID FORMAT TO ACCOMMODATE WORKING STUDENTS AND THOSE WHO REQUIRE FLEXIBLE SCHEDULING.

WHAT FACILITIES AND RESOURCES ARE AVAILABLE TO CSUF COMPUTER SCIENCE STUDENTS?

STUDENTS HAVE ACCESS TO MODERN COMPUTER LABS, SOFTWARE DEVELOPMENT TOOLS, HIGH-PERFORMANCE COMPUTING RESOURCES, AND FACULTY MENTORSHIP TO SUPPORT THEIR ACADEMIC AND PROJECT WORK WITHIN THE DEPARTMENT.

ADDITIONAL RESOURCES

1. *FOUNDATIONS OF COMPUTER SCIENCE AT CSUF*

THIS BOOK PROVIDES AN IN-DEPTH OVERVIEW OF THE CORE PRINCIPLES TAUGHT IN THE COMPUTER SCIENCE DEPARTMENT AT CALIFORNIA STATE UNIVERSITY, FULLERTON. IT COVERS ESSENTIAL TOPICS SUCH AS ALGORITHMS, DATA STRUCTURES, AND SOFTWARE DEVELOPMENT METHODOLOGIES. THE TEXT IS DESIGNED TO ALIGN WITH THE DEPARTMENT'S CURRICULUM, MAKING IT AN IDEAL RESOURCE FOR BOTH STUDENTS AND EDUCATORS.

2. *SOFTWARE ENGINEERING PRACTICES: A CSUF PERSPECTIVE*

FOCUSING ON SOFTWARE ENGINEERING, THIS BOOK HIGHLIGHTS THE METHODOLOGIES AND BEST PRACTICES EMPHASIZED WITHIN CSUF'S COMPUTER SCIENCE PROGRAM. IT EXPLORES PROJECT MANAGEMENT, AGILE DEVELOPMENT, TESTING, AND DOCUMENTATION, INCORPORATING CASE STUDIES FROM STUDENT PROJECTS. READERS GAIN PRACTICAL INSIGHTS INTO MANAGING REAL-WORLD SOFTWARE PROJECTS EFFECTIVELY.

3. *DATA SCIENCE AND ANALYTICS AT CAL STATE FULLERTON*

THIS BOOK DELVES INTO THE GROWING FIELD OF DATA SCIENCE, REFLECTING THE COURSEWORK AND RESEARCH INITIATIVES AT CSUF. IT INTRODUCES DATA MINING, MACHINE LEARNING, AND STATISTICAL ANALYSIS TECHNIQUES, OFFERING EXAMPLES RELEVANT TO LOCAL INDUSTRY TRENDS. THE BOOK AIMS TO PREPARE STUDENTS FOR THE DATA-DRIVEN CHALLENGES THEY WILL FACE IN THEIR CAREERS.

4. *INTRODUCTION TO ARTIFICIAL INTELLIGENCE: CSUF CURRICULUM EDITION*

A COMPREHENSIVE GUIDE TO AI CONCEPTS AS TAUGHT IN THE CSUF COMPUTER SCIENCE DEPARTMENT, THIS BOOK COVERS MACHINE LEARNING, NEURAL NETWORKS, NATURAL LANGUAGE PROCESSING, AND ROBOTICS. IT COMBINES THEORETICAL FOUNDATIONS WITH PRACTICAL PROGRAMMING EXERCISES USING POPULAR AI FRAMEWORKS. STUDENTS CAN USE THIS TEXT TO BUILD A STRONG FOUNDATION IN ARTIFICIAL INTELLIGENCE.

5. *CYBERSECURITY FUNDAMENTALS AND PRACTICES AT CSUF*

THIS TITLE ADDRESSES THE CRITICAL TOPIC OF CYBERSECURITY, HIGHLIGHTING THE DEPARTMENT'S APPROACH TO PROTECTING INFORMATION SYSTEMS. IT COVERS NETWORK SECURITY, CRYPTOGRAPHY, ETHICAL HACKING, AND RISK MANAGEMENT. THE BOOK INCLUDES CASE STUDIES FROM RECENT CYBER INCIDENTS, PROVIDING STUDENTS WITH A REAL-WORLD CONTEXT FOR THEIR STUDIES.

6. *MOBILE APPLICATION DEVELOPMENT WITH CSUF INSIGHTS*

FOCUSED ON MOBILE COMPUTING, THIS BOOK EXPLORES THE DEVELOPMENT OF APPLICATIONS FOR ANDROID AND IOS PLATFORMS, REFLECTING THE PRACTICAL SKILLS TAUGHT AT CSUF. IT COVERS UI/UX DESIGN, PROGRAMMING LANGUAGES LIKE JAVA AND SWIFT, AND DEPLOYMENT STRATEGIES. STUDENTS LEARN TO CREATE EFFICIENT, USER-FRIENDLY MOBILE APPS THROUGH HANDS-ON PROJECTS.

7. *ADVANCED ALGORITHMS AND COMPLEXITY THEORY FROM CSUF*

THIS ADVANCED TEXT DELVES INTO ALGORITHM DESIGN AND COMPUTATIONAL COMPLEXITY, MIRRORING THE UPPER-LEVEL COURSES OFFERED AT CSUF. TOPICS INCLUDE GRAPH ALGORITHMS, NP-COMPLETENESS, APPROXIMATION ALGORITHMS, AND RANDOMIZED ALGORITHMS. THE BOOK IS TAILORED FOR STUDENTS PREPARING FOR RESEARCH OR GRADUATE STUDIES IN COMPUTER SCIENCE.

8. *HUMAN-COMPUTER INTERACTION: CONCEPTS AND APPLICATIONS AT CSUF*

EXPLORING THE INTERFACE BETWEEN USERS AND TECHNOLOGY, THIS BOOK PRESENTS THE THEORIES AND PRACTICES TAUGHT IN CSUF'S HCI COURSES. IT COVERS USABILITY TESTING, COGNITIVE MODELING, AND INTERFACE DESIGN PRINCIPLES. THE TEXT EMPHASIZES CREATING ACCESSIBLE AND INTUITIVE SOFTWARE, PREPARING STUDENTS FOR CAREERS IN USER EXPERIENCE DESIGN.

9. *CLOUD COMPUTING AND DISTRIBUTED SYSTEMS: A CSUF APPROACH*

THIS BOOK INTRODUCES CLOUD COMPUTING CONCEPTS AND DISTRIBUTED SYSTEM ARCHITECTURES AS COVERED IN THE CSUF

CURRICULUM. IT DISCUSSES VIRTUALIZATION, CLOUD SERVICE MODELS, BIG DATA PROCESSING, AND SYSTEM SCALABILITY. STUDENTS GAIN A THOROUGH UNDERSTANDING OF HOW MODERN COMPUTING INFRASTRUCTURES ARE DESIGNED AND MANAGED.

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csuf computer science department: *Biometrics in a Data Driven World* Sinjini Mitra, Mikhail Gofman, 2016-12-01 Biometrics in a Data Driven World: Trends, Technologies, and Challenges aims to inform readers about the modern applications of biometrics in the context of a data-driven society, to familiarize them with the rich history of biometrics, and to provide them with a glimpse into the future of biometrics. The first section of the book discusses the fundamentals of biometrics and provides an overview of common biometric modalities, namely face, fingerprints, iris, and voice. It also discusses the history of the field, and provides an overview of emerging trends and opportunities. The second section of the book introduces readers to a wide range of biometric applications. The next part of the book is dedicated to the discussion of case studies of biometric modalities currently used on mobile applications. As smartphones and tablet computers are rapidly becoming the dominant consumer computer platforms, biometrics-based authentication is emerging as an integral part of protecting mobile devices against unauthorized access, while enabling new and highly popular applications, such as secure online payment authorization. The book concludes with a discussion of future trends and opportunities in the field of biometrics, which will pave the way for advancing research in the area of biometrics, and for the deployment of biometric technologies in real-world applications. The book is designed for individuals interested in exploring the contemporary applications of biometrics, from students to researchers and practitioners working in this field. Both undergraduate and graduate students enrolled in college-level security courses will also find this book to be an especially useful companion.

csuf computer science department: *A Pioneering and Independent Spirit* Debra Gold Hansen, 2010 A Pioneering and Independent Spirit chronicles the history of San José State University's School of Library and Information Science as it evolved from a small school-library training program established in 1928 into the largest MLIS degree program in the world. Set within the heart of California's Silicon Valley, the School's history reflects the dramatic social, economic, and educational changes resulting from the information revolution in the 20th century. From the use of closed circuit television in the 1950s to microfilmed course readings in the 1970s to the delivery

of courses on the World Wide Web, the School harnessed these new technologies to keep librarianship relevant as a profession and to make education for the field as widely available as possible. In March 2009, they took another bold step by going completely online. This means that now they are not only the world's largest MLIS program, but the first wholly virtual one. Based on extensive research in the university's records, Dr. Hansen shows how the School's tradition of entrepreneurship and innovation shaped its development between 1928 and 2009 and pays tribute to the administrators, faculty, and students who contributed to the School's success.

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csuf computer science department: *Frontiers of Quality Electronic Design (QED)* Ali Iranmanesh, 2023-01-11 Quality Electronic Design (QED)'s landscape spans a vast region where territories of many participating disciplines and technologies overlap. This book explores the latest trends in several key topics related to quality electronic design, with emphasis on Hardware Security, Cybersecurity, Machine Learning, and application of Artificial Intelligence (AI). The book includes topics in nonvolatile memories (NVM), Internet of Things (IoT), FPGA, and Neural Networks.

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csuf computer science department: *Geospatial Computational Methods* John N. Hatzopoulos, Nikolaos J. Hatzopoulos, 2024-05-01 This book is for students and professionals involved in Geospatial Computations and related areas such as Geomatics, Surveying Engineering, Geoinformatics, Geospatial Information Science and Technology (GIS&T), Geography, Geology, Agriculture, and Geointelligence. More emphasis is given to using scientific methods and tools materialized in algorithms and software to produce practical results. Specifically, algorithms such as error analysis of measurements and the least squares adjustment method to obtain ground coordinates of points with their reliability to construct the geometric framework of the geographical space necessary for various geospatial applications such as a Geographic Information System (GIS) are discussed. Other algorithms involve interpolation methods for DEM and spatial data analysis. Furthermore, such algorithms in the geospatial area are basic surveying methods using a total station, photogrammetry, digital terrain modeling, GNSS, augmented reality, coordinate transformations, map projections, and interpolation. Most algorithms are implemented into 27 educational computer programs and necessary data to understand GIS&T operations from the inside with a didactics approach targeting to become more intelligent than machines. The educational programs include general photogrammetric operations with aerial photography and drones, 3-D surveying network adjustment, GNSS navigation solutions, and many others. This approach helps to obtain high-quality scientific and technological bases, which in turn enhance the ability to exploit and use most tools and functions of existing GIS&T systems and, therefore, to be highly competitive as a professional in the market. This book has ten chapters such as Measurements and Errors Estimation and Accuracy Standards, Specialized Numerical Methods, Error Propagation & Least Squares Adjustment, Condition Method and Generalized Least Squares, Applications to Map Projections and Transformation of Coordinates, Applications to Surveying Networks, Applications of Computational Methods in Photogrammetry, Digital Elevation Models (DEM), Computer Programming – Scripting & AI.

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