

BIOMETRIC RECOGNITION

KARM VEER ARYA,ROBIN SINGH BHADORIA

❏ **BIOMETRIC RECOGNITION** NATIONAL RESEARCH COUNCIL, DIVISION ON ENGINEERING AND PHYSICAL SCIENCES, COMPUTER SCIENCE AND TELECOMMUNICATIONS BOARD, WHITHER BIOMETRICS COMMITTEE, 2010-12-12 BIOMETRIC RECOGNITION-THE AUTOMATED RECOGNITION OF INDIVIDUALS BASED ON THEIR BEHAVIORAL AND BIOLOGICAL CHARACTERISTIC-IS PROMOTED AS A WAY TO HELP IDENTIFY TERRORISTS, PROVIDE BETTER CONTROL OF ACCESS TO PHYSICAL FACILITIES AND FINANCIAL ACCOUNTS, AND INCREASE THE EFFICIENCY OF ACCESS TO SERVICES AND THEIR UTILIZATION. BIOMETRIC RECOGNITION HAS BEEN APPLIED TO IDENTIFICATION OF CRIMINALS, PATIENT TRACKING IN MEDICAL INFORMATICS, AND THE PERSONALIZATION OF SOCIAL SERVICES, AMONG OTHER THINGS. IN SPITE OF SUBSTANTIAL EFFORT, HOWEVER, THERE REMAIN UNRESOLVED QUESTIONS ABOUT THE EFFECTIVENESS AND MANAGEMENT OF SYSTEMS FOR BIOMETRIC RECOGNITION, AS WELL AS THE APPROPRIATENESS AND SOCIETAL IMPACT OF THEIR USE. MOREOVER, THE GENERAL PUBLIC HAS BEEN EXPOSED TO BIOMETRICS LARGELY AS HIGH-TECHNOLOGY GADGETS IN SPY THRILLERS OR AS FEAR-INSTILLING INSTRUMENTS OF STATE OR CORPORATE SURVEILLANCE IN SPECULATIVE FICTION. NOW, AS BIOMETRIC TECHNOLOGIES APPEAR POISED FOR BROADER USE, INCREASED CONCERNS ABOUT NATIONAL SECURITY AND THE TRACKING OF INDIVIDUALS AS THEY CROSS BORDERS HAVE CAUSED PASSPORTS, VISAS, AND BORDER-CROSSING RECORDS TO BE LINKED TO BIOMETRIC DATA. A FOCUS ON FIGHTING INSURGENCIES AND TERRORISM HAS LED TO THE MILITARY DEPLOYMENT OF BIOMETRIC TOOLS TO ENABLE RECOGNITION OF INDIVIDUALS AS FRIEND OR FOE. COMMERCIALY, FINGER-IMAGING SENSORS, WHOSE COST AND PHYSICAL SIZE HAVE BEEN REDUCED, NOW APPEAR ON MANY LAPTOP PERSONAL COMPUTERS, HANDHELD DEVICES, MOBILE PHONES, AND OTHER CONSUMER DEVICES. BIOMETRIC RECOGNITION: CHALLENGES AND OPPORTUNITIES ADDRESSES THE ISSUES SURROUNDING BROADER IMPLEMENTATION OF THIS TECHNOLOGY, MAKING TWO MAIN POINTS: FIRST, BIOMETRIC RECOGNITION SYSTEMS ARE INCREDIBLY COMPLEX, AND NEED TO BE ADDRESSED AS SUCH. SECOND, BIOMETRIC RECOGNITION IS AN INHERENTLY PROBABILISTIC ENDEAVOR. CONSEQUENTLY, EVEN WHEN THE TECHNOLOGY AND THE SYSTEM IN WHICH IT IS EMBEDDED ARE BEHAVING AS DESIGNED, THERE IS INEVITABLE UNCERTAINTY AND RISK OF ERROR. THIS BOOK ELABORATES ON THESE THEMES IN DETAIL TO PROVIDE POLICY MAKERS, DEVELOPERS, AND RESEARCHERS A COMPREHENSIVE ASSESSMENT OF BIOMETRIC RECOGNITION THAT EXAMINES CURRENT CAPABILITIES, FUTURE POSSIBILITIES, AND THE ROLE OF GOVERNMENT IN TECHNOLOGY AND SYSTEM DEVELOPMENT.

❏ **THE BIOMETRIC COMPUTING** KARM VEER ARYA, ROBIN SINGH BHADORIA, 2019-11-05 THE BIOMETRIC COMPUTING: RECOGNITION & REGISTRATION PRESENTS INTRODUCTION OF BIOMETRICS ALONG WITH DETAILED ANALYSIS FOR IDENTIFICATION AND RECOGNITION METHODS. THIS BOOK FORMS THE REQUIRED PLATFORM FOR UNDERSTANDING BIOMETRIC COMPUTING AND ITS IMPLEMENTATION FOR SECURING TARGET SYSTEM. IT ALSO PROVIDES THE COMPREHENSIVE ANALYSIS ON ALGORITHMS, ARCHITECTURES AND INTERDISCIPLINARY CONNECTION OF BIOMETRIC COMPUTING ALONG WITH DETAILED CASE-STUDIES FOR NEWBORNS AND RESOLUTION SPACES. THE STRENGTH OF THIS BOOK IS ITS UNIQUE APPROACH STARTING WITH HOW BIOMETRIC COMPUTING WORKS TO RESEARCH PARADIGMS AND GRADUALLY MOVES TOWARDS ITS ADVANCEMENT. THIS BOOK IS DIVIDED INTO THREE PARTS THAT COMPRISES BASIC FUNDAMENTALS AND DEFINITIONS, ALGORITHMS AND METHODOLOGIES, AND FUTURISTIC RESEARCH AND CASE STUDIES. FEATURES: A CLEAR VIEW TO THE FUNDAMENTALS OF BIOMETRIC COMPUTING IDENTIFICATION AND RECOGNITION APPROACH FOR DIFFERENT HUMAN CHARACTERISTICS DIFFERENT METHODOLOGIES AND ALGORITHMS FOR HUMAN IDENTIFICATION USING BIOMETRICS TRAITS SUCH AS FACE, IRIS, FINGERPRINT, PALM PRINT, VOICEPRINT ETC. INTERDISCIPLINARY CONNECTION OF BIOMETRIC COMPUTING WITH THE FIELDS LIKE DEEP NEURAL NETWORK, ARTIFICIAL INTELLIGENCE, INTERNET OF BIOMETRIC THINGS, LOW RESOLUTION FACE RECOGNITION ETC. THIS BOOK IS AN EDITED VOLUME BY PROMINENT INVITED RESEARCHERS AND PRACTITIONERS AROUND THE GLOBE IN THE FIELD OF BIOMETRICS, DESCRIBES THE FUNDAMENTAL AND RECENT ADVANCEMENT IN BIOMETRIC RECOGNITION AND REGISTRATION. THIS BOOK IS A PERFECT RESEARCH HANDBOOK FOR YOUNG PRACTITIONERS WHO ARE INTENDING TO CARRY OUT THEIR RESEARCH IN THE FIELD OF BIOMETRIC COMPUTING AND WILL BE USED BY INDUSTRY PROFESSIONALS, GRADUATE AND RESEARCHER STUDENTS IN THE FIELD OF COMPUTER SCIENCE AND ENGINEERING.

❏ **HANDBOOK OF BIOMETRICS** ANIL K. JAIN, PATRICK FLYNN, ARUN A. ROSS, 2007-10-23 BIOMETRICS IS A RAPIDLY EVOLVING FIELD WITH APPLICATIONS RANGING FROM ACCESSING ONE'S COMPUTER TO GAINING ENTRY INTO A COUNTRY. THE DEPLOYMENT OF LARGE-SCALE BIOMETRIC SYSTEMS IN BOTH COMMERCIAL AND GOVERNMENT APPLICATIONS HAS INCREASED PUBLIC AWARENESS OF THIS TECHNOLOGY. RECENT YEARS HAVE SEEN SIGNIFICANT GROWTH IN BIOMETRIC RESEARCH RESULTING IN THE DEVELOPMENT OF INNOVATIVE SENSORS, NEW ALGORITHMS, ENHANCED TEST METHODOLOGIES AND NOVEL APPLICATIONS. THIS BOOK ADDRESSES THIS VOID BY INVITING SOME OF THE PROMINENT RESEARCHERS IN BIOMETRICS TO CONTRIBUTE CHAPTERS DESCRIBING THE FUNDAMENTALS AS WELL AS THE LATEST INNOVATIONS IN THEIR RESPECTIVE AREAS OF EXPERTISE.

❏ **INTRODUCTION TO BIOMETRICS** ANIL K. JAIN, ARUN A. ROSS, KARTHIK NANDAKUMAR, 2011-11-18 BIOMETRIC RECOGNITION, OR SIMPLY BIOMETRICS, IS THE SCIENCE OF ESTABLISHING THE IDENTITY OF A PERSON BASED ON PHYSICAL OR BEHAVIORAL ATTRIBUTES. IT IS A RAPIDLY EVOLVING FIELD WITH APPLICATIONS RANGING FROM SECURELY ACCESSING ONE'S COMPUTER TO GAINING ENTRY INTO A COUNTRY. WHILE THE DEPLOYMENT OF LARGE-SCALE BIOMETRIC SYSTEMS IN BOTH COMMERCIAL AND GOVERNMENT APPLICATIONS HAS INCREASED THE PUBLIC AWARENESS OF THIS TECHNOLOGY, INTRODUCTION TO BIOMETRICS IS THE FIRST TEXTBOOK TO INTRODUCE THE FUNDAMENTALS OF BIOMETRICS TO UNDERGRADUATE/GRADUATE STUDENTS. THE THREE COMMONLY USED MODALITIES IN THE BIOMETRICS FIELD, NAMELY, FINGERPRINT, FACE, AND IRIS ARE COVERED IN DETAIL IN THIS BOOK. FEW OTHER MODALITIES LIKE HAND GEOMETRY, EAR, AND GAIT ARE ALSO DISCUSSED BRIEFLY ALONG WITH ADVANCED TOPICS SUCH AS MULTIBIOMETRIC SYSTEMS AND SECURITY OF BIOMETRIC SYSTEMS. EXERCISES FOR EACH CHAPTER WILL BE AVAILABLE ON THE BOOK WEBSITE TO HELP STUDENTS GAIN A BETTER UNDERSTANDING OF THE TOPICS AND OBTAIN PRACTICAL EXPERIENCE IN DESIGNING COMPUTER PROGRAMS FOR

BIOMETRIC APPLICATIONS. THESE CAN BE FOUND AT: [HTTP://WWW.CSEE.WVU.EDU/~ROSS/BIOMETRICSTextBook/](http://www.csee.wvu.edu/~ross/BiometricsTextBook/). DESIGNED FOR UNDERGRADUATE AND GRADUATE STUDENTS IN COMPUTER SCIENCE AND ELECTRICAL ENGINEERING, INTRODUCTION TO BIOMETRICS IS ALSO SUITABLE FOR RESEARCHERS AND BIOMETRIC AND COMPUTER SECURITY PROFESSIONALS.

❑ **IRIS ANALYSIS FOR BIOMETRIC RECOGNITION SYSTEMS** RAJESH M. BODADE, SANJAY N. TALBAR, 2014-05-07 THE BOOK PRESENTS THREE MOST SIGNIFICANT AREAS IN BIOMETRICS AND PATTERN RECOGNITION. A STEP-BY-STEP APPROACH FOR DESIGN AND IMPLEMENTATION OF DUAL TREE COMPLEX WAVELET TRANSFORM (DTCWT) PLUS ROTATED COMPLEX WAVELET FILTERS (RCWF) IS DISCUSSED IN DETAIL. IN ADDITION TO THE ABOVE, THE BOOK PROVIDES DETAILED ANALYSIS OF IRIS IMAGES AND TWO METHODS OF IRIS SEGMENTATION. IT ALSO DISCUSSES SIMPLIFIED STUDY OF SOME SUBSPACE-BASED METHODS AND DISTANCE MEASURES FOR IRIS RECOGNITION BACKED BY EMPIRICAL STUDIES AND STATISTICAL SUCCESS VERIFICATIONS.

❑ **BIOMETRIC SYSTEMS** JAMES L. WAYMAN, ANIL K. JAIN, DAVIDE MALTONI, DARIO MAIO, 2005-12-06 BIOMETRIC SYSTEMS PROVIDES PRACTITIONERS WITH AN OVERVIEW OF THE PRINCIPLES AND METHODS NEEDED TO BUILD RELIABLE BIOMETRIC SYSTEMS. IT COVERS THREE MAIN TOPICS: KEY BIOMETRIC TECHNOLOGIES, DESIGN AND MANAGEMENT ISSUES, AND THE PERFORMANCE EVALUATION OF BIOMETRIC SYSTEMS FOR PERSONAL VERIFICATION/IDENTIFICATION. THE FOUR MOST WIDELY USED TECHNOLOGIES ARE FOCUSED ON - SPEECH, FINGERPRINT, IRIS AND FACE RECOGNITION. KEY FEATURES INCLUDE: IN-DEPTH COVERAGE OF THE TECHNICAL AND PRACTICAL OBSTACLES WHICH ARE OFTEN NEGLECTED BY APPLICATION DEVELOPERS AND SYSTEM INTEGRATORS AND WHICH RESULT IN SHORTFALLS BETWEEN EXPECTED AND ACTUAL PERFORMANCE; AND PROTOCOLS AND BENCHMARKS WHICH WILL ALLOW DEVELOPERS TO COMPARE PERFORMANCE AND TRACK SYSTEM IMPROVEMENTS.

❑ **OUR BIOMETRIC FUTURE** KELLY A. GATES, 2011-01-23 SINCE THE 1960S, A SIGNIFICANT EFFORT HAS BEEN UNDERWAY TO PROGRAM COMPUTERS TO “SEE” THE HUMAN FACE—TO DEVELOP AUTOMATED SYSTEMS FOR IDENTIFYING FACES AND DISTINGUISHING THEM FROM ONE ANOTHER—COMMONLY KNOWN AS FACIAL RECOGNITION TECHNOLOGY. WHILE COMPUTER SCIENTISTS ARE DEVELOPING FRT IN ORDER TO DESIGN MORE INTELLIGENT AND INTERACTIVE MACHINES, BUSINESSES AND STATES AGENCIES VIEW THE TECHNOLOGY AS UNIQUELY SUITED FOR “SMART” SURVEILLANCE—SYSTEMS THAT AUTOMATE THE LABOR OF MONITORING IN ORDER TO INCREASE THEIR EFFICACY AND SPREAD THEIR REACH. TRACKING THIS TECHNOLOGICAL PURSUIT, OUR BIOMETRIC FUTURE IDENTIFIES FRT AS A PRIME EXAMPLE OF THE FAILED TECHNOCRATIC APPROACH TO GOVERNANCE, WHERE NEW TECHNOLOGIES ARE PURSUED AS SHORTSIGHTED SOLUTIONS TO COMPLEX SOCIAL PROBLEMS. CULLING NEWS STORIES, PRESS RELEASES, POLICY STATEMENTS, PR KITS AND OTHER MATERIALS, KELLY GATES PROVIDES EVIDENCE THAT, INSTEAD OF PROVIDING MORE SECURITY FOR MORE PEOPLE, THE PURSUIT OF FRT IS BEING DRIVEN BY THE PRIORITIES OF CORPORATIONS, LAW ENFORCEMENT AND STATE SECURITY AGENCIES, ALL CONVINCED OF THE TECHNOLOGY’S NECESSITY AND UNHINDERED BY ITS COMPLICATED AND POTENTIALLY DESTRUCTIVE SOCIAL CONSEQUENCES. BY FOCUSING ON THE POLITICS OF DEVELOPING AND DEPLOYING THESE TECHNOLOGIES, OUR BIOMETRIC FUTURE ARGUES NOT FOR THE INEVITABILITY OF A PARTICULAR TECHNOLOGICAL FUTURE, BUT FOR ITS PROFOUND CONTINGENCY AND CONTESTABILITY.

❑ **THE BIOMETRIC COMPUTING** KARM VEER ARYA, ROBIN SINGH BHADORIA, 2019-11-05 THE BIOMETRIC COMPUTING: RECOGNITION & REGISTRATION PRESENTS INTRODUCTION OF BIOMETRICS ALONG WITH DETAILED ANALYSIS FOR IDENTIFICATION AND RECOGNITION METHODS. THIS BOOK FORMS THE REQUIRED PLATFORM FOR UNDERSTANDING BIOMETRIC COMPUTING AND ITS IMPLEMENTATION FOR SECURING TARGET SYSTEM. IT ALSO PROVIDES THE COMPREHENSIVE ANALYSIS ON ALGORITHMS, ARCHITECTURES AND INTERDISCIPLINARY CONNECTION OF BIOMETRIC COMPUTING ALONG WITH DETAILED CASE-STUDIES FOR NEWBORNS AND RESOLUTION SPACES. THE STRENGTH OF THIS BOOK IS ITS UNIQUE APPROACH STARTING WITH HOW BIOMETRIC COMPUTING WORKS TO RESEARCH PARADIGMS AND GRADUALLY MOVES TOWARDS ITS ADVANCEMENT. THIS BOOK IS DIVIDED INTO THREE PARTS THAT COMPRISES BASIC FUNDAMENTALS AND DEFINITIONS, ALGORITHMS AND METHODOLOGIES, AND FUTURISTIC RESEARCH AND CASE STUDIES. FEATURES: A CLEAR VIEW TO THE FUNDAMENTALS OF BIOMETRIC COMPUTING IDENTIFICATION AND RECOGNITION APPROACH FOR DIFFERENT HUMAN CHARACTERISTICS DIFFERENT METHODOLOGIES AND ALGORITHMS FOR HUMAN IDENTIFICATION USING BIOMETRICS TRAITS SUCH AS FACE, IRIS, FINGERPRINT, PALM PRINT, VOICEPRINT ETC. INTERDISCIPLINARY CONNECTION OF BIOMETRIC COMPUTING WITH THE FIELDS LIKE DEEP NEURAL NETWORK, ARTIFICIAL INTELLIGENCE, INTERNET OF BIOMETRIC THINGS, LOW RESOLUTION FACE RECOGNITION ETC. THIS BOOK IS AN EDITED VOLUME BY PROMINENT INVITED RESEARCHERS AND PRACTITIONERS AROUND THE GLOBE IN THE FIELD OF BIOMETRICS, DESCRIBES THE FUNDAMENTAL AND RECENT ADVANCEMENT IN BIOMETRIC RECOGNITION AND REGISTRATION. THIS BOOK IS A PERFECT RESEARCH HANDBOOK FOR YOUNG PRACTITIONERS WHO ARE INTENDING TO CARRY OUT THEIR RESEARCH IN THE FIELD OF BIOMETRIC COMPUTING AND WILL BE USED BY INDUSTRY PROFESSIONALS, GRADUATE AND RESEARCHER STUDENTS IN THE FIELD OF COMPUTER SCIENCE AND ENGINEERING.

❑ **SIGNAL AND IMAGE PROCESSING FOR BIOMETRICS** JACOB SCHARCANSKI, HUGO PROENÇA, ELIZA DU, 2014-02-20 THIS VOLUME OFFERS A GUIDE TO THE STATE OF THE ART IN THE FAST EVOLVING FIELD OF BIOMETRIC RECOGNITION TO NEWCOMERS AND EXPERIENCED PRACTITIONERS. IT IS FOCUSED ON THE EMERGING STRATEGIES TO PERFORM BIOMETRIC RECOGNITION UNDER UNCONTROLLED DATA ACQUISITION CONDITIONS. THE MAINSTREAM RESEARCH WORK IN THIS FIELD IS PRESENTED IN AN ORGANIZED MANNER, SO THE READER CAN EASILY FOLLOW THE TRENDS THAT BEST SUITS HER/HIS INTERESTS IN THIS GROWING FIELD. THE BOOK CHAPTERS COVER THE RECENT ADVANCES IN LESS CONTROLLED / COVERT DATA ACQUISITION FRAMEWORKS, SEGMENTATION OF POOR QUALITY BIOMETRIC DATA, BIOMETRIC DATA QUALITY ASSESSMENT, NORMALIZATION OF POOR QUALITY BIOMETRIC DATA. CONTACTLESS BIOMETRIC RECOGNITION STRATEGIES, BIOMETRIC RECOGNITION ROBUSTNESS, DATA RESOLUTION, ILLUMINATION, DISTANCE, POSE, MOTION, OCCLUSIONS, MULTISPECTRAL BIOMETRIC RECOGNITION, MULTIMODAL

BIOMETRICS, FUSION AT DIFFERENT LEVELS, HIGH CONFIDENCE AUTOMATIC SURVEILLANCE.

📖 **ADVANCES IN BIOMETRIC PERSON AUTHENTICATION** S. Z. LI, 2005-10-10 THIS BOOK CONSTITUTES THE REFEREED PROCEEDINGS OF THE INTERNATIONAL WORKSHOP ON BIOMETRIC RECOGNITION SYSTEMS, IWBRIS 2005, HELD IN BEIJING, CHINA IN OCTOBER 2005 WITHIN THE SCOPE OF ICCV 2005, THE INTERNATIONAL CONFERENCE ON COMPUTER VISION. THIS WORKSHOP COMBINES THE ANNUAL CHINESE CONFERENCE ON BIOMETRIC RECOGNITION (SINOBIOMETRICS 2005). THE 32 REVISED FULL PAPERS WERE CAREFULLY REVIEWED AND SELECTED FROM 130 SUBMISSIONS. THE PAPERS ADDRESS THE PROBLEMS OF AUTOMATIC AND RELIABLE AUTHENTICATION OF INDIVIDUALS IN FACE, IRIS, FINGERPRINT, PALMPRINT, SPEAKER, WRITING AND OTHER BIOMETRICS, AND CONTRIBUTE NEW IDEAS TO RESEARCH AND DEVELOPMENT OF RELIABLE AND PRACTICAL SOLUTIONS FOR BIOMETRIC AUTHENTICATION.

📖 **BIOMETRIC SECURITY SYSTEMS FOR BEGINNER** MANISH MAHANT MANIKPURI, BIOMETRIC SECURITY SYSTEMS IS CORE SUBJECT FOR PG STUDENTS IN INFORMATION SECURITY, COMPUTER SCIENCE, CYBER SECURITY, FORENSIC SCIENCE AND OTHER RELATED STREAMS ETC. THIS BOOK IS PRIMARILY INTENDED TO SERVE AS A BEGINNER'S TEXTBOOK IN ACCORDANCE WITH THE SYLLABUS OF BIOMETRIC SECURITY OFFERED BY CSVTU AND VARIOUS UNIVERSITIES IN INDIA. IN THIS BOOK, A SIGNIFICANT EFFORT HAS BEEN MADE TO FIND SIMPLE WAYS TO DEVELOP THEORETICAL ASPECTS OF BIOMETRIC SYSTEMS. NEAT AND CLEAR DIAGRAMS HAVE BEEN USED FOR EXPLANATIONS. AUTHOR HAS ALSO INTRODUCED CASE STUDY AND BIOMETRIC PROGRAMMING CONCEPT IN JAVA. THE AUTHOR HOPES THAT THE BOOK WILL FULFILL THE NEED OF THE READERS AND WOULD WELCOME ANY SUGGESTIONS TOWARDS THE IMPROVEMENT OF THE BOOK.

📖 **INTELLIGENT BIOMETRIC TECHNIQUES IN FINGERPRINT AND FACE RECOGNITION** SHIGEYOSHI TSUTSUI, 2022-01-27 THE TREMENDOUS WORLD-WIDE INTEREST IN INTELLIGENT BIOMETRIC TECHNIQUES IN FINGERPRINT AND FACE RECOGNITION IS FUELED BY THE MYRIAD OF POTENTIAL APPLICATIONS, INCLUDING BANKING AND SECURITY SYSTEMS, AND LIMITED ONLY BY THE IMAGINATIONS OF SCIENTISTS AND ENGINEERS. THIS GROWING INTEREST POSES NEW CHALLENGES TO THE FIELDS OF EXPERT SYSTEMS, NEURAL NETWORKS, FUZZY SYSTEMS, AND EVOLUTIONARY COMPUTING, WHICH OFFER THE ADVANTAGES OF LEARNING ABILITIES AND HUMAN-LIKE BEHAVIOR. AUTHORED BY A PANEL OF INTERNATIONAL EXPERTS, THIS BOOK PRESENTS A THOROUGH TREATMENT OF ESTABLISHED AND EMERGING APPLICATIONS AND TECHNIQUES RELEVANT TO THIS FIELD.

📖 **AUTOMATIC FINGERPRINT RECOGNITION SYSTEMS** NALINI RATHA, RUUD BOLLE, 2007-05-08 AN AUTHORITATIVE SURVEY OF INTELLIGENT FINGERPRINT-RECOGNITION CONCEPTS, TECHNOLOGY, AND SYSTEMS IS GIVEN. EDITORS AND CONTRIBUTORS ARE THE LEADING RESEARCHERS AND APPLIED R&D DEVELOPERS OF THIS PERSONAL IDENTIFICATION (BIOMETRIC SECURITY) TOPIC AND TECHNOLOGY. BIOMETRICS AND PATTERN RECOGNITION RESEARCHERS AND PROFESSIONALS WILL FIND THE BOOK AN INDISPENSABLE RESOURCE FOR CURRENT KNOWLEDGE AND TECHNOLOGY IN THE FIELD.

📖 **BIOMETRIC IDENTIFICATION, LAW AND ETHICS** MARCUS SMITH, SEUMAS MILLER, 2021-12-10 THIS BOOK IS OPEN ACCESS. THIS BOOK UNDERTAKES A MULTIFACETED AND INTEGRATED EXAMINATION OF BIOMETRIC IDENTIFICATION, INCLUDING THE CURRENT STATE OF THE TECHNOLOGY, HOW IT IS BEING USED, THE KEY ETHICAL ISSUES, AND THE IMPLICATIONS FOR LAW AND REGULATION. THE FIVE CHAPTERS EXAMINE THE MAIN FORMS OF CONTEMPORARY BIOMETRICS—FINGERPRINT RECOGNITION, FACIAL RECOGNITION AND DNA IDENTIFICATION—AS WELL THE INTEGRATION OF BIOMETRIC DATA WITH OTHER FORMS OF PERSONAL DATA, ANALYSES KEY ETHICAL CONCEPTS IN PLAY, INCLUDING PRIVACY, INDIVIDUAL AUTONOMY, COLLECTIVE RESPONSIBILITY, AND JOINT OWNERSHIP RIGHTS, AND PROPOSES A RAFT OF PRINCIPLES TO GUIDE THE REGULATION OF BIOMETRICS IN LIBERAL DEMOCRACIES. BIOMETRIC IDENTIFICATION TECHNOLOGY IS DEVELOPING RAPIDLY AND BEING IMPLEMENTED MORE WIDELY, ALONG WITH OTHER FORMS OF INFORMATION TECHNOLOGY. AS PRODUCTS, SERVICES AND COMMUNICATION MOVES ONLINE, DIGITAL IDENTITY AND SECURITY IS BECOMING MORE IMPORTANT. BIOMETRIC IDENTIFICATION FACILITATES THIS TRANSITION. CITIZENS NOW USE BIOMETRICS TO ACCESS A SMARTPHONE OR OBTAIN A PASSPORT; LAW ENFORCEMENT AGENCIES USE BIOMETRICS IN ASSOCIATION WITH CCTV TO IDENTIFY A TERRORIST IN A CROWD, OR IDENTIFY A SUSPECT VIA THEIR FINGERPRINTS OR DNA; AND COMPANIES USE BIOMETRICS TO IDENTIFY THEIR CUSTOMERS AND EMPLOYEES. IN SOME CASES THE USE OF BIOMETRICS IS GOVERNED BY LAW, IN OTHERS THE TECHNOLOGY HAS DEVELOPED AND BEEN IMPLEMENTED SO QUICKLY THAT, PERHAPS BECAUSE IT HAS BEEN VIEWED AS A VALUABLE SECURITY ENHANCEMENT, LAWS REGULATING ITS USE HAVE OFTEN NOT BEEN UPDATED TO REFLECT NEW APPLICATIONS. HOWEVER, THE TECHNOLOGY ASSOCIATED WITH BIOMETRICS RAISES SIGNIFICANT ETHICAL PROBLEMS, INCLUDING IN RELATION TO INDIVIDUAL PRIVACY, OWNERSHIP OF BIOMETRIC DATA, DUAL USE AND, MORE GENERALLY, AS IS ILLUSTRATED BY THE INCREASING USE OF BIOMETRICS IN AUTHORITARIAN STATES SUCH AS CHINA, THE POTENTIAL FOR UNREGULATED BIOMETRICS TO UNDERMINE FUNDAMENTAL PRINCIPLES OF LIBERAL DEMOCRACY. RESOLVING THESE ETHICAL PROBLEMS IS A VITAL STEP TOWARDS MORE EFFECTIVE REGULATION.

📖 **HUMAN RECOGNITION IN UNCONSTRAINED ENVIRONMENTS** MARIA DE MARSICO, MICHELE NAPPI, HUGO PEDRO PROENÇA, 2017-01-09 THIS BOOK PROVIDES A UNIQUE PICTURE OF THE COMPLETE 'IN-THE-WILD' BIOMETRIC RECOGNITION PROCESSING CHAIN; FROM DATA ACQUISITION THROUGH TO DETECTION, SEGMENTATION, ENCODING, AND MATCHING REACTIONS AGAINST SECURITY INCIDENTS. COVERAGE INCLUDES: DATA HARDWARE ARCHITECTURE FUNDAMENTALS BACKGROUND SUBTRACTION OF HUMANS IN OUTDOOR SCENES CAMERA SYNCHRONIZATION BIOMETRIC TRAITS: REAL-TIME DETECTION AND DATA SEGMENTATION BIOMETRIC TRAITS: FEATURE ENCODING / MATCHING FUSION AT DIFFERENT LEVELS REACTION AGAINST SECURITY INCIDENTS ETHICAL ISSUES IN NON-COOPERATIVE BIOMETRIC RECOGNITION IN PUBLIC SPACES WITH THIS BOOK READERS WILL LEARN HOW TO: USE COMPUTER VISION, PATTERN RECOGNITION


AND MACHINE LEARNING METHODS FOR BIOMETRIC RECOGNITION IN REAL-WORLD, REAL-TIME SETTINGS, ESPECIALLY THOSE RELATED TO FORENSICS AND SECURITY CHOOSE THE MOST SUITED BIOMETRIC TRAITS AND RECOGNITION METHODS FOR UNCONTROLLED SETTINGS EVALUATE THE PERFORMANCE OF A BIOMETRIC SYSTEM ON REAL WORLD DATA PRESENTS A COMPLETE PICTURE OF THE BIOMETRIC RECOGNITION PROCESSING CHAIN, RANGING FROM DATA ACQUISITION TO THE REACTION PROCEDURES AGAINST SECURITY INCIDENTS PROVIDES SPECIFIC REQUIREMENTS AND ISSUES BEHIND EACH TYPICAL PHASE OF THE DEVELOPMENT OF A ROBUST BIOMETRIC RECOGNITION SYSTEM INCLUDES A CONTEXTUALIZATION OF THE ETHICAL/PRIVACY ISSUES BEHIND THE DEVELOPMENT OF A COVERT RECOGNITION SYSTEM WHICH CAN BE USED FOR FORENSICS AND SECURITY ACTIVITIES

📖 **STATE OF THE ART IN BIOMETRICS** JUCHENG YANG, LORIS NANNI, 2011-07-27 BIOMETRIC RECOGNITION IS ONE OF THE MOST WIDELY STUDIED PROBLEMS IN COMPUTER SCIENCE. THE USE OF BIOMETRICS TECHNIQUES, SUCH AS FACE, FINGERPRINTS, IRIS AND EARS IS A SOLUTION FOR OBTAINING A SECURE PERSONAL IDENTIFICATION. HOWEVER, THE OLD BIOMETRICS IDENTIFICATION TECHNIQUES ARE OUT OF DATE. THIS GOAL OF THIS BOOK IS TO PROVIDE THE READER WITH THE MOST UP TO DATE RESEARCH PERFORMED IN BIOMETRIC RECOGNITION AND DESCRIBE SOME NOVEL METHODS OF BIOMETRICS, EMPHASIS ON THE STATE OF THE ART SKILLS. THE BOOK CONSISTS OF 15 CHAPTERS, EACH FOCUSING ON A MOST UP TO DATE ISSUE. THE CHAPTERS ARE DIVIDED INTO FIVE SECTIONS- FINGERPRINT RECOGNITION, FACE RECOGNITION, IRIS RECOGNITION, OTHER BIOMETRICS AND BIOMETRICS SECURITY. THE BOOK WAS REVIEWED BY EDITORS DR. JUCHENG YANG AND DR. LORIS NANNI. WE DEEPLY APPRECIATE THE EFFORTS OF OUR GUEST EDITORS: DR. GIRIJA CHETTY, DR. NORMAN POH, DR. JIANJIANG FENG, DR. DONGSUN PARK AND DR. SOOK YOON, AS WELL AS A NUMBER OF ANONYMOUS REVIEWERS

📖 **BIOMETRIC IDENTIFICATION TECHNOLOGIES BASED ON MODERN DATA MINING METHODS** STEPAN BILAN, MOHAMED ELHOSENY, D. JUDE HEMANTH, 2020-12-03 THIS BOOK EMPHASIZES RECENT ADVANCES IN THE CREATION OF BIOMETRIC IDENTIFICATION SYSTEMS FOR VARIOUS APPLICATIONS IN THE FIELD OF HUMAN ACTIVITY. THE BOOK DISPLAYS THE PROBLEMS THAT ARISE IN MODERN SYSTEMS OF BIOMETRIC IDENTIFICATION, AS WELL AS THE LEVEL OF DEVELOPMENT AND PROSPECTS FOR THE INTRODUCTION OF BIOMETRIC TECHNOLOGIES. THE AUTHORS CLASSIFY BIOMETRIC TECHNOLOGIES INTO TWO GROUPS, DISTINGUISHED ACCORDING TO THE TYPE OF BIOMETRIC CHARACTERISTICS USED. THE FIRST GROUP USES STATIC BIOMETRIC PARAMETERS: FINGERPRINTS, HAND GEOMETRY, RETINA PATTERN, VEIN PATTERN ON THE FINGER, ETC. THE SECOND GROUP USES DYNAMIC PARAMETERS FOR IDENTIFICATION: THE DYNAMICS OF THE REPRODUCTION OF A SIGNATURE OR A HANDWRITTEN KEYWORD, VOICE, GAIT, DYNAMICS OF WORK ON THE KEYBOARD, ETC. THE DIRECTIONS OF BUILDING INFORMATION SYSTEMS THAT USE AUTOMATIC PERSONALITY IDENTIFICATION BASED ON THE ANALYSIS OF UNIQUE BIOMETRIC CHARACTERISTICS OF A PERSON ARE DISCUSSED. THE BOOK IS INTENDED FOR PROFESSIONALS WORKING AND CONDUCTING RESEARCH IN THE FIELD OF INTELLIGENT INFORMATION PROCESSING, INFORMATION SECURITY, AND ROBOTICS AND IN THE FIELD OF REAL-TIME IDENTIFICATION SYSTEMS. THE BOOK CONTAINS EXAMPLES AND PROBLEMS/SOLUTIONS THROUGHOUT.

📖 **STATE OF THE ART IN BIOMETRICS** JUCHENG YANG, LORIS NANNI, 2011-07-27 BIOMETRIC RECOGNITION IS ONE OF THE MOST WIDELY STUDIED PROBLEMS IN COMPUTER SCIENCE. THE USE OF BIOMETRICS TECHNIQUES, SUCH AS FACE, FINGERPRINTS, IRIS AND EARS IS A SOLUTION FOR OBTAINING A SECURE PERSONAL IDENTIFICATION. HOWEVER, THE OLD BIOMETRICS IDENTIFICATION TECHNIQUES ARE OUT OF DATE. THIS GOAL OF THIS BOOK IS TO PROVIDE THE READER WITH THE MOST UP TO DATE RESEARCH PERFORMED IN BIOMETRIC RECOGNITION AND DESCRIBE SOME NOVEL METHODS OF BIOMETRICS, EMPHASIS ON THE STATE OF THE ART SKILLS. THE BOOK CONSISTS OF 15 CHAPTERS, EACH FOCUSING ON A MOST UP TO DATE ISSUE. THE CHAPTERS ARE DIVIDED INTO FIVE SECTIONS- FINGERPRINT RECOGNITION, FACE RECOGNITION, IRIS RECOGNITION, OTHER BIOMETRICS AND BIOMETRICS SECURITY. THE BOOK WAS REVIEWED BY EDITORS DR. JUCHENG YANG AND DR. LORIS NANNI. WE DEEPLY APPRECIATE THE EFFORTS OF OUR GUEST EDITORS: DR. GIRIJA CHETTY, DR. NORMAN POH, DR. JIANJIANG FENG, DR. DONGSUN PARK AND DR. SOOK YOON, AS WELL AS A NUMBER OF ANONYMOUS REVIEWERS

📖 **BIOMETRIC TECHNOLOGIES AND VERIFICATION SYSTEMS** JOHN R. VACCA, 2007-03-16 BIOMETRIC TECHNOLOGIES AND VERIFICATION SYSTEMS IS ORGANIZED INTO NINE PARTS COMPOSED OF 30 CHAPTERS, INCLUDING AN EXTENSIVE GLOSSARY OF BIOMETRIC TERMS AND ACRONYMS. IT DISCUSSES THE CURRENT STATE-OF-THE-ART IN BIOMETRIC VERIFICATION/AUTHENTICATION, IDENTIFICATION AND SYSTEM DESIGN PRINCIPLES. IT ALSO PROVIDES A STEP-BY-STEP DISCUSSION OF HOW BIOMETRICS WORKS; HOW BIOMETRIC DATA IN HUMAN BEINGS CAN BE COLLECTED AND ANALYZED IN A NUMBER OF WAYS; HOW BIOMETRICS ARE CURRENTLY BEING USED AS A METHOD OF PERSONAL IDENTIFICATION IN WHICH PEOPLE ARE RECOGNIZED BY THEIR OWN UNIQUE CORPORAL OR BEHAVIORAL CHARACTERISTICS; AND HOW TO CREATE DETAILED MENUS FOR DESIGNING A BIOMETRIC VERIFICATION SYSTEM. ONLY BIOMETRICS VERIFICATION/AUTHENTICATION IS BASED ON THE IDENTIFICATION OF AN INTRINSIC PART OF A HUMAN BEING. TOKENS, SUCH AS SMART CARDS, MAGNETIC STRIPE CARDS, AND PHYSICAL KEYS CAN BE LOST, STOLEN, OR DUPLICATED. PASSWORDS CAN BE FORGOTTEN, SHARED, OR UNINTENTIONALLY OBSERVED BY A THIRD PARTY. FORGOTTEN PASSWORDS AND LOST SMART CARDS ARE A NUISANCE FOR USERS AND AN EXPENSIVE TIME-WASTER FOR SYSTEM ADMINISTRATORS. BIOMETRIC SECURITY SOLUTIONS OFFER SOME UNIQUE ADVANTAGES FOR IDENTIFYING AND VERIFYING/ AUTHENTICATING HUMAN BEINGS OVER MORE TRADITIONAL SECURITY METHODS. THIS BOOK WILL SERVE TO IDENTIFY THE VARIOUS SECURITY APPLICATIONS BIOMETRICS CAN PLAY A HIGHLY SECURE AND SPECIFIC ROLE IN. * CONTAINS ELEMENTS SUCH AS SIDEBARS, TIPS, NOTES AND URL LINKS * HEAVILY ILLUSTRATED WITH OVER 150 ILLUSTRATIONS, SCREEN CAPTURES, AND PHOTOGRAPHS * DETAILS THE VARIOUS BIOMETRIC TECHNOLOGIES AND HOW THEY WORK WHILE PROVIDING A DISCUSSION OF THE ECONOMICS, PRIVACY ISSUES AND CHALLENGES OF IMPLEMENTING BIOMETRIC SECURITY SOLUTIONS

 **BIOMETRIC SYSTEMS**, 2021-02-10 BIOMETRICS ARE USED WIDELY IN VARIOUS REAL-LIFE APPLICATIONS TODAY. THERE ARE A NUMBER OF POTENTIAL BIOMETRIC APPLICATIONS THAT INCLUDE DIFFERENT AREAS SUCH AS PERSONAL RECOGNITION, IDENTIFICATION, VERIFICATION, AND OTHERS. IT MAY BE NEEDED FOR SAFETY, SECURITY, PERMISSION, BANKING, CRIME PREVENTION, FORENSICS, MEDICAL APPLICATIONS, COMMUNICATION, FACE FINDING, AND OTHERS. THIS BOOK IS SPECIFICALLY DEDICATED TO BIOMETRIC RESEARCH, APPLICATIONS, TECHNIQUES, TOOLS, AND ALGORITHMS THAT ORIGINATE FROM DIFFERENT FIELDS SUCH AS IMAGE PROCESSING, COMPUTER VISION, PATTERN RECOGNITION, SIGNAL PROCESSING, ARTIFICIAL INTELLIGENCE, INTELLIGENT SYSTEMS, AND SOFT COMPUTING. THE MAIN OBJECTIVE OF THIS BOOK IS TO PROVIDE THE INTERNATIONAL COMMUNITY WITH AN EFFECTIVE PLATFORM IN THE AREA OF PEOPLE IDENTITY VERIFICATION AND AUTHENTICATION FROM PHYSIOLOGICAL AND BEHAVIORAL ASPECTS. THIS PUBLICATION PROVIDES AN EFFECTIVE PLATFORM FOR HELPING AND GUIDING READERS, PROFESSIONALS, RESEARCHERS, ACADEMICIANS, ENGINEERS, SCIENTISTS, AND POLICY MAKERS INVOLVED IN THE AREA OF BIOMETRICS.

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