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Venu Govindaraju (Eds)

Advances in Biometrics

Sensors, Algorithms and Systems

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Advances in Biometrics N. K. Ratha, Venu Govindaraju, 2008 Recent advances in biometrics include new developments in sensors modalities and algorithms As new sensors are designed newer challenges emerge in the algorithms for accurate recognition Written for researchers advanced students and practitioners to use as a handbook this volume captures the very latest state of the art research contributions from leading international researchers It offers coverage of the entire gamut of topics in the field including sensors data acquisition pattern matching algorithms and issues that impact at the system level such as standards security networks and databases

Advances in Biometrics Venugopal Govindaraju, Nalini Kanta Ratha, 2007

AI Based Advancements in Biometrics and its Applications Balasubramaniam S, Seifedine Kadry, A. Prasanth, Rajesh Kumar Dhanaraj, 2024-11-15 This book delves into the history of biometrics the different systems that have been developed to date problems that have arisen from these systems the necessity of AI based biometrics systems different AI techniques developed to date including machine learning deep learning natural language processing and pattern recognition their potential uses and applications security and privacy issues in AI based Biometric systems current trends in AI based biometrics and presents case studies of AI based biometrics

Handbook of Fingerprint Recognition Davide Maltoni, Dario Maio, Anil K. Jain, Jianjiang Feng, 2022-07-04 A major new professional reference work on fingerprint security systems and technology from leading international researchers in the field Handbook provides authoritative and comprehensive coverage of all major topics concepts and methods for fingerprint security systems This unique reference work is an absolutely essential resource for all biometric security professionals researchers and systems administrators

Encyclopedia of Cryptography and Security Henk C.A. van Tilborg, Sushil Jajodia, 2014-07-08 Expanded into two volumes the Second Edition of Springer's Encyclopedia of Cryptography and Security brings the latest and most comprehensive coverage of the topic Definitive information on cryptography and information security from highly regarded researchers Effective tool for professionals in many fields and researchers of all levels Extensive resource with more than 700 contributions in Second Edition 5643 references more than twice the number of references that appear in the First Edition With over 300 new entries appearing in an A Z format the Encyclopedia of Cryptography and Security provides easy intuitive access to information on all aspects of cryptography and security As a critical enhancement to the First Edition's base of 464 entries the information in the Encyclopedia is relevant for researchers and professionals alike Topics for this comprehensive reference were elected written and peer reviewed by a pool of distinguished researchers in the field The Second Edition's editorial board now includes 34 scholars which was expanded from 18 members in the First Edition Representing the work of researchers from over 30 countries the Encyclopedia is broad in scope covering everything from authentication and identification to quantum cryptography and web security The text's practical style is instructional yet fosters investigation Each area presents concepts designs and specific implementations The highly structured essays in this work include

synonyms a definition and discussion of the topic bibliographies and links to related literature Extensive cross references to other entries within the Encyclopedia support efficient user friendly searches for immediate access to relevant information Key concepts presented in the Encyclopedia of Cryptography and Security include Authentication and identification Block ciphers and stream ciphers Computational issues Copy protection Cryptanalysis and security Cryptographic protocols Electronic payment and digital certificates Elliptic curve cryptography Factorization algorithms and primality tests Hash functions and MACs Historical systems Identity based cryptography Implementation aspects for smart cards and standards Key management Multiparty computations like voting schemes Public key cryptography Quantum cryptography Secret sharing schemes Sequences Web Security Topics covered Data Structures Cryptography and Information Theory Data Encryption Coding and Information Theory Appl Mathematics Computational Methods of Engineering Applications of Mathematics Complexity This authoritative reference will be published in two formats print and online The online edition features hyperlinks to cross references in addition to significant research

Technology in Forensic Science Deepak Rawtani, Chaudhery Mustansar Hussain, 2020-11-02 The book Technology in Forensic Science provides an integrated approach by reviewing the usage of modern forensic tools as well as the methods for interpretation of the results Starting with best practices on sample taking the book then reviews analytical methods such as high resolution microscopy and chromatography biometric approaches and advanced sensor technology as well as emerging technologies such as nanotechnology and taggant technology It concludes with an outlook to emerging methods such as AI based approaches to forensic investigations

Encyclopedia of Biometrics Stan Z. Li, 2009-08-27 With an A Z format this encyclopedia provides easy access to relevant information on all aspects of biometrics It features approximately 250 overview entries and 800 definitional entries Each entry includes a definition key words list of synonyms list of related entries illustration s applications and a bibliography Most entries include useful literature references providing the reader with a portal to more detailed information

Recent Advances in Computational Intelligence Applications for Biometrics and Biomedical Devices Aditya Khamparia, Deepak Gupta, 2025-10-30 Recent Advances in Computational Intelligence Applications for Biometrics and Biomedical Devices focuses on the intersection of biometric driven computational approaches and techniques within a connected multi modal environment particularly emphasizing their applications in healthcare The book explores cutting edge methodological approaches that leverage technologies like blockchain and integrate them with information fusion data security for medical devices and trust management Readers will find this to be a comprehensive overview of the topics covered including machine learning and deep learning for biomedical based biometrics computational medical imaging techniques security strategies for healthcare systems AI technology for multimodal biometrics and feature reduction techniques Other sections cover blockchain and fog computing models for medical sensor data storage and evolutionary optimization for biometric feature identification and recognition amongst others Covers recent computational

advancements in biomedical driven biometrics for connected healthcare Explores intelligent computational multimodal technologies for healthcare incorporating deep learning parallel computing and distributed computing Presents security aspects of next generation healthcare technologies including machine learning deep learning and blockchain integration with IoT for information fusion data security and trust management Provides both fundamental and high level concepts making it suitable for both industry professionals and beginners Includes applications of cloud and pervasive computing technologies in biometrics for real world scenarios

Advances in Biometrics for Secure Human Authentication and Recognition Dakshina Ranjan Kisku, Phalguni Gupta, Jamuna Kanta Sing, 2013-12-09 Although biometric systems present powerful alternatives to traditional authentication schemes there are still many concerns about their security *Advances in Biometrics for Secure Human Authentication and Recognition* showcases some of the latest technologies and algorithms being used for human authentication and recognition Examining the full range of biometrics solutions including unimodal and multimodal biometrics the book covers conventional techniques as well as novel systems that have been developed over the past few years It presents new biometric algorithms with novel feature extraction techniques new computer vision approaches soft computing approaches and machine learning techniques under a unified framework used in biometrics systems Filled with comprehensive graphical and modular illustrations the text covers applications of affective computing in biometrics matching sketch to photograph cryptography approaches in biometrics biometrics alteration heterogeneous biometrics and age invariant biometrics It also presents biometrics algorithms with novel feature extraction techniques computer vision approaches soft computing approaches and machine learning techniques under a unified framework used in biometrics systems Containing the work of some of the world's most respected biometrics researchers the book includes model question papers mathematical notations and exercises to reinforce understanding Providing an up to date review of intelligence techniques and theories used in biometric technologies for secure human authentication and identification this is an essential reference for researchers scholars graduate students engineers practitioners and developers in the field of biometrics and its related fields

Multimodal Surveillance Zhigang Zhu, 2007 This resource brings together the multimodal surveillance fields leading experts who guide researchers designers engineers and developers through this multifaceted technology It discusses the latest high end sensors for extremely accurate surveillance as well as low cost sensing solutions

Proceedings, 2005

Sensor Fusion: Architectures, Algorithms, and Applications, 1999

Optical Engineering, 2004 Publishes papers reporting on research and development in optical science and engineering and the practical applications of known optical science engineering and technology

Multibiometric Systems Karthik Nandakumar, 2008 Multibiometric systems are gaining popularity because they are able to overcome limitations such as non universality noisy sensor data and susceptibility to spoof attacks common in unibiometric systems We address two critical issues in the design of a multibiometric system namely fusion methodology and template security We propose a fusion methodology based on the

Neyman Pearson theorem for combination of match scores provided by multiple biometric matchers The likelihood ratio LR test used in the Neyman Pearson theorem directly maximizes the genuine accept rate GAR at any desired false accept rate FAR We extend the likelihood ratio based fusion scheme to incorporate the quality of the biometric samples The LR framework can be used for designing sequential multibiometric systems by constructing a binary decision tree classifier based on the marginal likelihood ratios of the individual matchers The use of image quality information further improves the GAR to 90% at a FAR of 0.001% Next we show that the proposed likelihood ratio based fusion framework is also applicable to a multibiometric system operating in the identification mode We investigate rank level fusion strategies and propose a hybrid scheme that utilizes both ranks and scores to perform fusion in the identification scenario Fusion of multiple biometric sources requires storage of multiple templates for the same user corresponding to the individual biometric sources Template security is an important issue because stolen biometric templates cannot be revoked We propose a scheme for securing multibiometric templates as a single entity using the fuzzy vault framework We have developed fully automatic implementations of a fingerprint based fuzzy vault that secures minutiae templates and an iris cryptosystem that secures iris code templates We also demonstrate that a multibiometric vault achieves better recognition performance and higher security compared to a unibiometric vault

Automatic Fingerprint Recognition Systems Nalini Ratha, Ruud Bolle, 2003-10-09

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

Advances in Biometrics G.R. Sinha, 2019-12-13 This book provides a framework for robust and novel biometric techniques along with implementation and design strategies The theory principles pragmatic and modern methods and future directions of biometrics are presented along with in depth coverage of biometric applications in driverless cars automated and AI based systems IoT and wearable devices Additional coverage includes computer vision and pattern recognition cybersecurity cognitive computing soft biometrics and the social impact of biometric technology The book will be a valuable reference for researchers faculty and practicing professionals working in biometrics and related fields such as image processing computer vision and artificial intelligence Highlights robust and novel biometrics techniques Provides implementation strategies and future research directions in the field of biometrics Includes case studies and emerging applications

Biometric Technology for Human Identification, 2007

Recent Advances in Biometrics Muhammad Sarfraz, 2022-07-27 Biometrics are widely used in various real life applications including personal recognition identification verification and more They may also be used for safety security permission banking crime prevention forensics medical applications and communication This book explores the latest developments theories methods approaches algorithms analysis systems hardware and software in biometrics and related systems

Mobile Biometrics

Guodong Guo, Harry Wechsler, 2017-10-06 Mobile biometrics aim to achieve conventional functionality and robustness while also supporting portability and mobility bringing greater convenience and opportunity for deployment in a wide range of operational environments Achieving these aims brings new challenges such as issues around algorithm complexity device memory limitations and security This book the first substantial survey of its kind brings together high quality research addressing the new challenges of mobile biometrics International Symposium on Multispectral Image Processing (ISMIP'...) ,1998

Advances In Biometrics Sensors Algorithms And Systems Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Advances In Biometrics Sensors Algorithms And Systems**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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