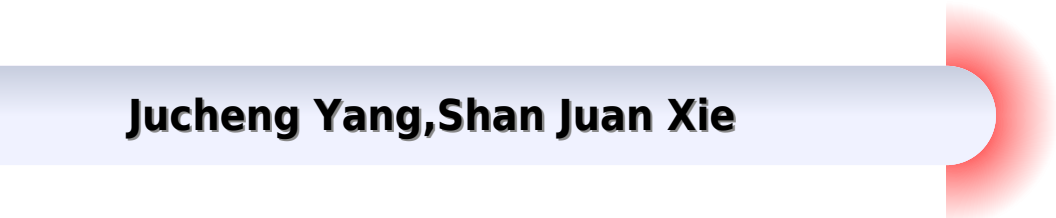




Advances In Biometrics Sensors Algorithms And Systems

Jucheng Yang, Shan Juan Xie



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Building on the success of the previous editions this thoroughly updated third edition has been considerably revised to provide even greater coverage of PAD methods spanning biometrics systems based on face fingerprint iris voice vein and signature recognition New material is also included on major PAD competitions important databases for research and on the impact of recent international legislation Valuable insights are supplied by a selection of leading experts in the field complete with results from reproducible research supported by source code and further information available at an associated website Topics and features reviews the latest developments in PAD for fingerprint biometrics covering recent technologies like Vision Transformers and review of competition series examines methods for PAD in iris recognition systems the use of pupil size measurement or multiple spectra for this purpose discusses advancements in PAD methods for face recognition based biometrics such as recent progress on detection of 3D facial masks and the use of multiple spectra with Deep Neural Networks presents an analysis of PAD for automatic speaker recognition ASV including a study of the generalization to unseen attacks describes the results yielded by key competitions on fingerprint liveness detection iris liveness detection and face anti spoofing provides analyses of PAD in finger vein recognition in signature biometrics and in mobile biometrics includes coverage of international standards in PAD and legal aspects of image manipulations like morphing This text reference is essential reading for anyone involved in biometric identity verification be they students researchers practitioners engineers or technology consultants Those new to the field will also benefit from a number of introductory chapters outlining the basics for the most important biometrics This text reference is essential reading for anyone involved in biometric identity verification be they students researchers practitioners engineers or technology consultants Those new to the field will also benefit from a number of introductory chapters outlining the basics for the most important biometrics

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 Dictionary of Computer Vision and Image Processing Robert B. Fisher, Toby P.

Breckon, Kenneth Dawson-Howe, Andrew Fitzgibbon, Craig Robertson, Emanuele Trucco, Christopher K. I. Williams, 2013-11-08 Written by leading researchers the 2nd Edition of the Dictionary of Computer Vision Includes the addition of reference links across the majority of terms pointing readers to further information about the concept under discussion so that they can continue to expand their understanding Now available as an eBook with enhanced content approximately 50 videos to further illustrate specific terms active cross linking between terms so that readers can easily navigate from one related term to another and build up a full picture of the topic in question and hyperlinked references to fully embed the text in the current literature **Second Generation Biometrics: The Ethical, Legal and Social Context** Emilio Mordini, Dimitros

Tzovaras, 2012-05-02 While a sharp debate is emerging about whether conventional biometric technology offers society any significant advantages over other forms of identification and whether it constitutes a threat to privacy technology is rapidly progressing Politicians and the public are still discussing fingerprinting and iris scan while scientists and engineers are already testing futuristic solutions Second generation biometrics which include multimodal biometrics behavioural biometrics dynamic face recognition EEG and ECG biometrics remote iris recognition and other still more astonishing applications is a reality which promises to overturn any current ethical standard about human identification Robots which recognise their masters CCTV which detects intentions voice responders which analyse emotions these are only a few applications in progress to be developed This book is the first ever published on ethical social and privacy implications of second generation biometrics Authors include both distinguished scientists in the biometric field and prominent ethical privacy and social scholars This makes this book an invaluable tool for policy makers technologists social scientists privacy authorities involved in biometric policy setting Moreover it is a precious instrument to update scholars from different

disciplines who are interested in biometrics and its wider social ethical and political implications Biometric-Based Physical and Cybersecurity Systems Mohammad S. Obaidat, Issa Traore, Isaac Woungang, 2018-10-24 This book presents the latest developments in biometrics technologies and reports on new approaches methods findings and technologies developed or being developed by the research community and the industry The book focuses on introducing fundamental principles and concepts of key enabling technologies for biometric systems applied for both physical and cyber security The authors disseminate recent research and developing efforts in this area investigate related trends and challenges and present case studies and examples such as fingerprint face iris retina keystroke dynamics and voice applications The authors also investigate the advances and future outcomes in research and development in biometric security systems The book is applicable to students instructors researchers industry practitioners and related government agencies staff Each chapter is accompanied by a set of PowerPoint slides for use by instructors

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