

Fingerprint Research Paper

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 Progress in Pattern Recognition, Image Analysis and Applications
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Fingerprint Research Paper

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A Comparative Legal Analysis CRC Press

Identification of unknown individuals and the determination of their age, race, and sex is one of the most important functions of forensic dentistry. Throughout history, this procedure has been used to establish difficult identifications, including Adolph Hitler, Eva Braun, Lee Harvey Oswald, and actor William Holden. Other essential applications of forensic dentistry include mass disaster investigations, evaluating bite marks and bitemark evidence in death investigations, child abuse investigations, and in civil litigation for evaluating oral or temporomandibular injuries related to accidents. This book explains these procedures in a comprehensive way that takes you step-by-step through the world of forensic dental investigations. The areas of forensic dentistry have come a long way in recent years. New and unique discussions offer information that will benefit professionals faced with many of the current aspects of the science. Topics include how to deal with a trial or an aggressive attorney and how to assess buried crime scene evidence (the application of forensic geotaphonomy in forensic archaeology). Forensic Dentistry illustrates the proper handling and evaluation of dental evidence. Its broad coverage also includes important information for legal and police science professionals who must properly evaluate and present dental findings. This book covers all standard examination practices of dental evidence, including identification of unknown individuals (age, race, sex). Whether you are a medical examiner or a pathologist who needs to know about the proper handling and evaluation of dental evidence, a legal or police science professional who needs to know how to deal with the proper presentation of dental findings in a court of law, or a dentist who wants to use your training and experience in a unique, interesting, and challenging way, this book is for you!

Forensic Fingerprints Springer Science & Business Media
 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.
Fingerprint Development Techniques Springer Science & Business Media

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.

Multimedia Content Representation, Classification and Security
 Cambridge Scholars Publishing
 The Fingerprint Sourcebook
Progress in Pattern Recognition, Image Analysis and Applications
 CRC Press

A comprehensive review of the latest fingerprint development and imaging techniques With contributions from leading experts in the field, *Fingerprint Development Techniques* offers a comprehensive review of the key techniques used in the development and imaging of fingerprints. It includes a review of the properties of fingerprints, the surfaces that fingerprints are deposited on, and the interactions that can occur between fingerprints, surfaces and environments. Comprehensive in scope, the text explores the history of each process, the theory behind the way fingerprints are either developed or imaged, and information about the role of each of the chemical constituents in recommended formulations. The authors explain the methodology employed for carrying out comparisons of effectiveness of various development techniques that clearly demonstrate how to select the most effective approaches. The text also explores how techniques can be used in sequence and with techniques for recovering other forms of forensic evidence. In addition, the book offers a guide for the selection of fingerprint development techniques and includes information on the influence of surface contamination and exposure conditions. This important resource: Provides clear methodologies for conducting comparisons of fingerprint development technique effectiveness Contains in-depth assessment of fingerprint constituents and how they are utilized by development and imaging processes Includes background information on fingerprint chemistry Offers a comprehensive history, the theory, and the applications for a broader range of processes, including the roles of each constituent in reagent formulations *Fingerprint Development Techniques* offers a comprehensive guide to fingerprint development and imaging, building on much of the previously unpublished research of the Home Office Centre for Applied Science and Technology.

Computational Intelligence for Information Retrieval

Springer Science & Business Media
 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.

Challenges and Opportunities National Academies Press
 This book constitutes the refereed proceedings of the First International Conference on Biometric Authentication, ICBA 2004, held in Hong Kong, China in July 2004. The 104 revised full papers presented were carefully reviewed and selected from 157 submissions; also included are summaries of 3 biometric competitions on fingerprint verification, face authentication, and signature verification. The papers are organized in topical sections on face, fingerprint, iris, signature, speech, biometric fusion and risk analysis, and other biometric issues.

DNA Technology in Forensic Science National Academies Press
 An easy-to-understand synopsis of identification systems, presenting in simple language the process of fingerprint identification, from the initial capture of a set of finger images, to the production of a Rapsheet. No other single work exists which reviews this important identification process from beginning to end. We examine the identification process for latent (crime scene) prints and how they are identified with these systems. While the primary focus is automated fingerprint identifications, the book also touches on the emergence and use of fingerprints in other biometric systems. Criminal justice administrators, policy makers, and students of forensic science and criminal justice will find a reference to the known limitations and advantages of these systems. This book provides information as to the critical and continual need for properly trained individuals as well as an understanding of the direct and indirect costs associated with maintaining these systems. An understanding of the entire system and what it means will prove invaluable. Why are there missed identifications? Why are identifications made on one database that are not made on another database? Key terms and issues are included, and well as suggestions for improving the overall number of identifications. The book will go beyond process and also discuss issues such as interoperability, management strategies for large databases, contract development, lights out verification and several other issues which impact automated identifications. - The first comprehensive title on this subject area - Outlines in detail the entire process of fingerprint gathering and identity verification - The future of AFIS will be discussed, including national standards in developing multi-agency cooperation/interoperability (U.S.) in addition to the use of AFIS identification world-wide.

12th Iberoamerican Congress on Pattern Recognition, CIARP 2007, Valpariso, Chile, November 13-16, 2007, Proceedings
 Springer Nature

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. Commercially, 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. GRIN Verlag

This book provides a thorough understanding of the integration of computational intelligence with information retrieval including content-based image retrieval using intelligent techniques, hybrid computational intelligence for pattern recognition, intelligent innovative systems, and protecting and analysing big data on cloud platforms. The book aims to investigate how computational intelligence frameworks are going to improve information retrieval systems. The emerging and promising state-of-the-art of human-computer interaction is the motivation behind this book. The book covers a wide range of topics, starting from the tools and languages of artificial intelligence to its philosophical implications, and thus provides a plethora of theoretical as well as experimental research, along with surveys and impact studies. Further, the book aims to showcase the basics of information retrieval and computational intelligence for beginners, as well as their integration, and challenge discussions for existing practitioners, including using hybrid application of augmented reality, computational intelligence techniques for recommendation systems in big data, and a fuzzy-based approach for characterization and identification of sentiments. Springer

Fingerprint identification is the most efficient, rapid, and cost-effective forensic identification modality. *Postmortem Fingerprinting and Unidentified Human Remains* is a consolidated and thorough guide to the recovery, identification, and management of unidentified postmortem fingerprint records - topics from postmortem fingerprint processing to database submission and case management are discussed. Additionally, a postmortem processing workflow is described, which delineates various basic and advanced fingerprint recovery techniques used to acquire examination-quality records. Furthermore, *Postmortem Fingerprinting and Unidentified Human Remains* discusses the complexity of antemortem fingerprint databases and how to access each database for humanitarian purposes, bringing a modern value perspective to the topic.

The Fingerprint John Wiley & Sons

This book constitutes the refereed proceedings of two International Workshops held as parallel events of the 16th IFIP

WG 12.5 International Conference on Artificial Intelligence Applications and Innovations, AIAI 2020, in Neos Marmaras, Greece, in June 2020: the 9th Mining Humanistic Data Workshop, MHDW 2020, and the 5th Workshop on 5G-Putting Intelligence to the Network Edge, 5G-PINE 2020.* The 6 full papers and 3 short papers presented at MHDW 2020 were carefully reviewed and selected from 16 submissions; out of the 23 papers submitted to 5G-PINE 2020, 11 were accepted as full papers and 1 as a short paper. The MHDW papers focus on topics such as recommendation systems, sentiment analysis, pattern recognition, data mining, and time series. The papers presented at 5G-PINE focus on the latest AI applications in the telecommunication industry and deal with topics such as the Internet of Things, intelligence fusion in 5G networks, and 5G media. *The workshops were held virtually due to the COVID-19 pandemic.

Biometric Recognition CRC Press

This title was first published in 2002: This field guide assesses two views of human error - the old view, in which human error becomes the cause of an incident or accident, or the new view, in which human error is merely a symptom of deeper trouble within the system. The two parts of this guide concentrate on each view, leading towards an appreciation of the new view, in which human error is the starting point of an investigation, rather than its conclusion. The second part of this guide focuses on the circumstances which unfold around people, which causes their assessments and actions to change accordingly. It shows how to "reverse engineer" human error, which, like any other component, needs to be put back together in a mishap investigation.

Quantitative-Qualitative Friction Ridge Analysis Springer Science & Business Media

Offering the first comprehensive analysis of touchless fingerprint-recognition technologies, *Touchless Fingerprint Biometrics* gives an overview of the state of the art and describes relevant industrial applications. It also presents new techniques to efficiently and effectively implement advanced solutions based on touchless fingerprinting. The most

Knowledge-Based Intelligent Information and Engineering Systems Infinite Study

This book constitutes the refereed proceedings of the International Workshop on Multimedia Content Representation, Classification and Security, MRCSS 2006. The book presents 100 revised papers together with 4 invited lectures. Coverage includes biometric recognition, multimedia content security, steganography, watermarking, authentication, classification for biometric recognition, digital watermarking, content analysis and representation, 3D object retrieval and classification, representation, analysis and retrieval in cultural heritage, content representation, indexing and retrieval, and more.

Automatic Fingerprint Recognition Systems Springer

"A clear and crisply written account of machine intelligence, big data and the sharing economy. But McAfee and Brynjolfsson also wisely acknowledge the limitations of their futurology and avoid over-simplification." —Financial Times In *The Second Machine Age*, Andrew McAfee and Erik Brynjolfsson predicted some of the far-reaching effects of digital technologies on our lives and businesses. Now they've written a guide to help readers make the most of our collective future. *Machine | Platform | Crowd* outlines the opportunities and challenges inherent in the science fiction technologies that have come to life in recent years, like self-driving cars and 3D printers, online platforms for renting outfits and scheduling workouts, or crowd-sourced medical research and financial instruments.

Trends in DNA Fingerprinting Research Springer Science & Business Media

Reflecting new discoveries in fingerprint science, Lee and Gaensslen's *Advances in Fingerprint Technology*, Third Edition has been completely updated with new material and nearly double the references contained in the previous edition. The book begins with a detailed review of current, widely used development

techniques, as well as some older, historical techniques. **Postmortem Fingerprinting and Unidentified Human Remains** Springer Science & Business Media

This book discusses all critical privacy and data protection aspects of biometric systems from a legal perspective. It contains a systematic and complete analysis of the many issues raised by these systems based on examples worldwide and provides several recommendations for a transnational regulatory framework. An appropriate legal framework is in most countries not yet in place. Biometric systems use facial images, fingerprints, iris and/or voice in an automated way to identify or to verify (identity) claims of persons. The treatise which has an interdisciplinary approach starts with explaining the functioning of biometric systems in general terms for non-specialists. It continues with a description of the legal nature of biometric data and makes a comparison with DNA and biological material and the regulation thereof. After describing the risks, the work further reviews the opinions of data protection authorities in relation to biometric systems and current and future (EU) law. A detailed legal comparative analysis is made of the situation in Belgium, France and the Netherlands. The author concludes with an evaluation of the proportionality principle and the application of data protection law to biometric data processing operations, mainly in the private sector. Pleading for more safeguards in legislation, the author makes several suggestions for a regulatory framework aiming at reducing the risks of biometric systems. They include limitations to the collection and storage of biometric data as well as technical measures, which could influence the proportionality of the processing. The text is supported by several figures and tables providing a summary of particular points of the discussion. The book also uses the 2012 biometric vocabulary adopted by ISO and contains an extensive bibliography and literature sources.

I - Z. W. W. Norton & Company

DNA Fingerprinting is a method of identification that compares fragments of deoxyribonucleic acid (DNA). It is sometimes called DNA typing. DNA is the genetic material found within the cell nuclei of all living things. The techniques used in DNA fingerprinting also have applications law and law enforcement, palaeontology, archaeology, various fields of biology, and medical diagnostics. In biological classification, it can help to show evolutionary change and relationships on the molecular level, and it has the advantage of being able to be used even when only very small samples are available. This book details several applications of this break-through technique.

A Path Forward National Academies Press

Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. *Strengthening Forensic Science in the United States: A Path Forward* provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exonerated. *Strengthening Forensic Science in the United States* gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

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