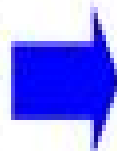
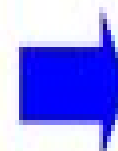


Criminal (C)



Automatic
Speaker
Recognition
System



E_1
 E_2
 E_3

⋮

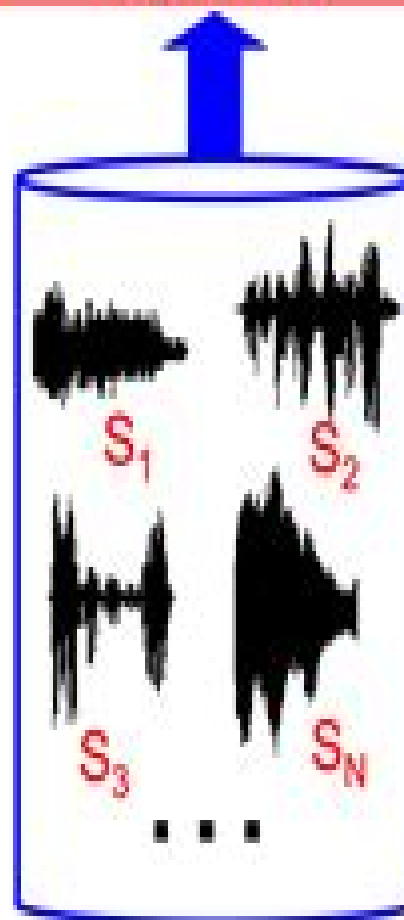
⋮

⋮

E_n

List of scores

Big database of N
known speakers
(speaker identities)



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J Ma



Information Security For Automatic Speaker Identification Information Security For Automatic Speaker Identification:

Information Security for Automatic Speaker Identification Fathi E. Abd El-Samie, 2011-06-07 The author covers the fundamentals of both information and communication security including current developments in some of the most critical areas of automatic speech recognition Included are topics on speech watermarking speech encryption steganography multilevel security systems comprising speaker identification real transmission of watermarked or encrypted speech signals and more The book is especially useful for information security specialist government security analysts speech development professionals and for individuals involved in the study and research of speech recognition at advanced levels **Forensic Speaker Identification** Phil Rose, 2002-07-01 A voice is much more than just a string of words Voices unlike fingerprints are inherently complex They signal a great deal of information in addition to the intended message the speakers sex for example or their emotional state or age Although evidence from DNA analysis grabs the headlines DNA can't talk It can't be recorded planning **INFORMATION SECURITY** DHIREN R. PATEL, 2008-04-22 This book offers a comprehensive introduction to the fundamental aspects of Information Security including Web Networked World Systems Applications and Communication Channels Security is also an essential part of e business strategy including protecting critical infrastructures that depend on information systems and hence information security in the enterprise Government Industry Academia and Society and over networks has become the primary concern The book provides the readers with a thorough understanding of how information can be protected throughout computer networks The concepts related to the main objectives of computer and information security systems namely confidentiality data integrity authentication entity and data origin access control and non repudiation have been elucidated providing a sound foundation in the principles of cryptography and network security The book provides a detailed treatment of design principles of classical and modern cryptosystems through an elaborate study of cryptographic techniques algorithms and protocols It covers all areas of security using Symmetric key and Public key cryptography hash functions authentication techniques biometric techniques and steganography Besides techniques such as Secure Socket Layer SSL Firewalls IPsec for Web security and network security are addressed as well to complete the security framework of the Internet Finally the author demonstrates how an online voting system can be built showcasing information security techniques for societal benefits Information Security Theory and Practice is intended as a textbook for a one semester course in Information Security Network Security and Cryptography for B E B Tech students of Computer Science and Engineering and Information Technology *The History of Information Security* Karl Maria Michael de Leeuw, Jan Bergstra, 2007-08-28 Information Security is usually achieved through a mix of technical organizational and legal measures These may include the application of cryptography the hierarchical modeling of organizations in order to assure confidentiality or the distribution of accountability and responsibility by law among interested parties The history of

Information Security reaches back to ancient times and starts with the emergence of bureaucracy in administration and warfare. Some aspects such as the interception of encrypted messages during World War II have attracted huge attention, whereas other aspects have remained largely uncovered. There has never been any effort to write a comprehensive history. This is most unfortunate because Information Security should be perceived as a set of communicating vessels where technical innovations can make existing legal or organisational frameworks obsolete and a breakdown of political authority may cause an exclusive reliance on technical means. This book is intended as a first field survey. It consists of twenty-eight contributions written by experts in such diverse fields as computer science, law, or history and political science, dealing with episodes, organisations and technical developments that may be considered to be exemplary or have played a key role in the development of this field. These include the emergence of cryptology as a discipline during the Renaissance, the Black Chambers in 18th century Europe, the breaking of German military codes during World War II, the histories of the NSA and its Soviet counterparts and contemporary cryptology. Other subjects are computer security, standards, viruses and worms on the Internet, computer transparency and free software, computer crime, export regulations for encryption software and the privacy debate. Interdisciplinary coverage of the history of Information Security. Written by top experts in law, history, computer and information science. First comprehensive work in Information Security.

Handbook of Multimedia Information Security: Techniques and Applications Amit Kumar Singh, Anand Mohan, 2019-07-19. This handbook is organized under three major parts. The first part of this handbook deals with multimedia security for emerging applications. The chapters include basic concepts of multimedia tools and applications, biological and behavioral biometrics, effective multimedia encryption and secure watermarking techniques for emerging applications, an adaptive face identification approach for Android mobile devices and multimedia using chaotic and perceptual hashing function. The second part of this handbook focuses on multimedia processing for various potential applications. The chapter includes a detailed survey of image processing-based automated glaucoma detection techniques and role of denoising, recent study of dictionary learning-based image reconstruction techniques for analyzing the big medical data, brief introduction of quantum image processing and its applications, a segmentation-less efficient Alzheimer detection approach, object recognition, image enhancements and denoising techniques for emerging applications, improved performance of image compression approach and automated detection of eye-related diseases using digital image processing. The third part of this handbook introduces multimedia applications. The chapter includes the extensive survey on the role of multimedia in medicine and multimedia forensics, classification, a finger-based authentication system for e-health, security analysis of recently developed deep learning techniques for emotion and activity recognition. Further, the book introduces a case study on change of ECG according to time for user identification, role of multimedia in big data, cloud computing, the Internet of things (IoT) and blockchain environment in detail for real-life applications. This handbook targets researchers, policy makers, programmers and industry professionals.

in creating new knowledge for developing efficient techniques framework for multimedia applications Advanced level students studying computer science specifically security and multimedia will find this book useful as a reference

Handbook of Information Security, Threats, Vulnerabilities, Prevention, Detection, and Management Hossein Bidgoli, 2006-03-13 The Handbook of Information Security is a definitive 3 volume handbook that offers coverage of both established and cutting edge theories and developments on information and computer security The text contains 180 articles from over 200 leading experts providing the benchmark resource for information security network security information privacy and information warfare

Networks and Communications (NetCom2013) Natarajan Meghanathan, Dhinaharan Nagamalai, Sanguthevar Rajasekaran, 2014-02-05 This book covers theory methodology and applications of computer networks network protocols and wireless networks data communication technologies and network security The book is based on the proceedings from the Fifth International Conference on Networks Communications NetCom The proceedings will feature peer reviewed papers that illustrate research results projects surveys and industrial experiences that describe significant advances in the diverse areas of computer networks communications

Automatic Speech Signal Analysis for Clinical Diagnosis and Assessment of Speech Disorders Ladan Baghai-Ravary, Steve W. Beet, 2012-08-09 Automatic Speech Signal Analysis for Clinical Diagnosis and Assessment of Speech Disorders provides a survey of methods designed to aid clinicians in the diagnosis and monitoring of speech disorders such as dysarthria and dyspraxia with an emphasis on the signal processing techniques statistical validity of the results presented in the literature and the appropriateness of methods that do not require specialized equipment rigorously controlled recording procedures or highly skilled personnel to interpret results Such techniques offer the promise of a simple and cost effective yet objective assessment of a range of medical conditions which would be of great value to clinicians The ideal scenario would begin with the collection of examples of the clients speech either over the phone or using portable recording devices operated by non specialist nursing staff The recordings could then be analyzed initially to aid diagnosis of conditions and subsequently to monitor the clients progress and response to treatment The automation of this process would allow more frequent and regular assessments to be performed as well as providing greater objectivity

Proceedings of the Second International Conference on Computing, Communication, Security and Intelligent Systems Shahid Mumtaz, Danda B. Rawat, Varun G. Menon, 2024-03-27 This book presents the best selected research papers presented at the Second International Conference on Computing Communication Security Intelligent Systems IC3SIS 2023 organized by SCMS School of Engineering and Technology Kochi on July 06 07 2023 It discusses the latest technologies in communication and intelligent systems covering various areas of computing such as advanced computing communication and networking intelligent systems and analytics 5G and IoT soft computing and cybersecurity in general Featuring work by leading researchers and technocrats the book serves as a valuable reference resource for young researchers academics and industry practitioners

Progress in Pattern

Recognition, Image Analysis and Applications Alberto Sanfeliu, Manuel Lazo Cortés, 2005-11-04 This book constitutes the refereed proceedings of the 10th Iberoamerican Congress on Pattern Recognition CIARP 2005 held in Havana Cuba in November 2005 The 107 revised full papers presented together with 3 keynote articles were carefully reviewed and selected from more than 200 submissions The papers cover ongoing research and mathematical methods for pattern recognition image analysis and applications in such diverse areas as computer vision robotics industry health entertainment space exploration telecommunications data mining document analysis and natural language processing and recognition *The Future of Artificial Intelligence and Robotics* David Pastor-Escuredo, Imene Brigui, Nishtha Kesswani, Sushanta Bordoloi, Ashok Kumar Ray, 2024-08-19 This book includes the results from the 5th International Conference on Deep Learning Artificial Intelligence and Robotics ICDLAIR held in National Institute of Technology Kurukshetra on December 07 09 2023 which brought together visionaries researchers and industry leaders at the forefront of technological innovation In the rapidly evolving landscape of technology deep learning artificial intelligence and robotics stand as a beacon of innovation and intellectual exchange Among the myriad of groundbreaking contributions a notable gem emerges a forthcoming book that promises to encapsulate the essence of the 5th International Conference on Deep Learning Artificial Intelligence and Robotics ICDLAIR 2023 proceedings Titled Progress in AI Driven Business Decisions Robotic Process Automation this publication is poised to become a cornerstone for enthusiasts researchers and professionals seeking a comprehensive understanding of the latest advancements in deep learning artificial intelligence and robotics Focused on the theme Progress in AI Driven Business Decisions Robotic Process Automation the conference showcased groundbreaking developments in the field exploring the intersection of deep learning artificial intelligence AI and robotics **Automated Biometrics** David D. Zhang, 2013-11-11 Biometrics based authentication and identification are emerging as the most reliable method to authenticate and identify individuals Biometrics requires that the person to be identified be physically present at the point of identification and relies on something which you are or you do to provide better security increased efficiency and improved accuracy Automated biometrics deals with physiological or behavioral characteristics such as fingerprints signature palmprint iris hand voice and face that can be used to authenticate a person's identity or establish an identity from a database With rapid progress in electronic and Internet commerce there is also a growing need to authenticate the identity of a person for secure transaction processing Designing an automated biometrics system to handle large population identification accuracy and reliability of authentication are challenging tasks Currently there are over ten different biometrics systems that are either widely used or under development Some automated biometrics such as fingerprint identification and speaker verification have received considerable attention over the past 25 years and some issues like face recognition and iris based authentication have been studied extensively resulting in successful development of biometrics systems in commercial applications However very few books are exclusively devoted to such issues of automated biometrics

Automated Biometrics Technologies and Systems systematically introduces the technologies and systems and explores how to design the corresponding systems with in depth discussion The issues addressed in this book are highly relevant to many fundamental concerns of both researchers and practitioners of automated biometrics in computer and system security

Intelligent Sustainable Systems Atulya Nagar,Dharm Singh Jat,Durgesh Mishra,Amit Joshi,2025-03-17 This book provides insights of World Conference on Smart Trends in Systems Security and Sustainability WS4 2024 which is divided into different sections such as Smart IT Infrastructure for Sustainable Society Smart Management Prospective for Sustainable Society Smart Secure Systems for Next Generation Technologies Smart Trends for Computational Graphics and Image Modeling and Smart Trends for Biomedical and Health Informatics The proceedings is presented in four volumes The book is helpful for active researchers and practitioners in the field Human Factors Engineering Design for Army Materiel (metric), 1981 *Enhancing Steganography Through Deep Learning Approaches* Kumar, Vijay,Chowdhary, Chiranji Lal,Basheer, Shakila,Doss, Srinath,Sengar, Sandeep Singh,2024-11-04 In an era defined by digital connectivity securing sensitive information against cyber threats is a pressing concern As digital transmission systems advance so do the methods of intrusion and data theft Traditional security measures often need to catch up in safeguarding against sophisticated cyber attacks This book presents a timely solution by integrating steganography the ancient art of concealing information with cutting edge deep learning techniques By blending these two technologies the book offers a comprehensive approach to fortifying the security of digital communication channels *Enhancing Steganography Through Deep Learning Approaches* addresses critical issues in national information security business and personal privacy property security counterterrorism and internet security It thoroughly explores steganography s application in bolstering security across various domains Readers will gain insights into the fusion of deep learning and steganography for advanced encryption and data protection along with innovative steganographic techniques for securing physical and intellectual property The book also delves into real world examples of thwarting malicious activities using deep learning enhanced steganography This book is tailored for academics and researchers in Artificial Intelligence postgraduate students seeking in depth knowledge in AI and deep learning smart computing practitioners data analysis professionals and security sector professionals Springer Handbook of Speech Processing Jacob Benesty,M. M. Sondhi,Yiteng Huang,2007-11-28 This handbook plays a fundamental role in sustainable progress in speech research and development With an accessible format and with accompanying DVD Rom it targets three categories of readers graduate students professors and active researchers in academia and engineers in industry who need to understand or implement some specific algorithms for their speech related products It is a superb source of application oriented authoritative and comprehensive information about these technologies this work combines the established knowledge derived from research in such fast evolving disciplines as Signal Processing and Communications Acoustics Computer Science and Linguistics **Signal Processing and Multimedia** Sankar Kumar Pal,William I.

Grosky, Niki Pissinou, Timothy K. Shih, Dominik Ślęzak, 2010-11-25 Welcome to the proceedings of the 2010 International Conferences on Signal Processing Image Processing and Pattern Recognition SIP 2010 and Multimedia Computer Graphics and Broadcasting MulGraB 2010 two of the partnering events of the Second International Mega Conference on Future Generation Information Technology FGIT 2010 SIP and MulGraB bring together researchers from academia and industry as well as practitioners to share ideas problems and solutions relating to the multifaceted aspects of image signal and multimedia processing including their links to computational sciences mathematics and information technology In total 1 630 papers were submitted to FGIT 2010 from 30 countries which includes 225 papers submitted to SIP MulGraB 2010 The submitted papers went through a rigorous reviewing process 395 of the 1 630 papers were accepted for FGIT 2010 while 53 papers were accepted for SIP MulGraB 2010 Of the 53 papers 8 were selected for the special FGIT 2010 volume published by Springer in the LNCS series 37 papers are published in this volume and 8 papers were withdrawn due to technical reasons We would like to acknowledge the great effort of the SIP MulGraB 2010 International Advisory Boards and members of the International Program Committees as well as all the organizations and individuals who supported the idea of publishing this volume of proceedings including SERSC and Springer Also the success of these two conferences would not have been possible without the huge support from our sponsors and the work of the Chairs and Organizing Committee

Advances in Data-Driven Computing and Intelligent Systems Swagatam Das, Snehanishu Saha, Carlos A. Coello Coello, Jagdish C. Bansal, 2024-02-21

This book is a collection of best selected research papers presented at the International Conference on Advances in Data driven Computing and Intelligent Systems ADCIS 2023 held at BITS Pilani K K Birla Goa Campus Goa India during September 21-23 2023 It includes state of the art research work in the cutting edge technologies in the field of data science and intelligent systems The book presents data driven computing it is a new field of computational analysis which uses provided data to directly produce predictive outcomes The book is useful for academicians research scholars and industry persons

Behavioral Biometrics for Human Identification: Intelligent Applications Wang, Liang, Geng, Xin, 2009-08-31 This edited book provides researchers and practitioners a comprehensive understanding of the state of the art of behavioral biometrics techniques potential applications successful practice and available resources Provided by publisher

Information and Communication Technology for Intelligent Systems Suresh Chandra Satapathy, Amit Joshi, 2018-12-30 The book gathers papers addressing state of the art research in all areas of Information and Communication Technologies and their applications in intelligent computing cloud storage data mining and software analysis It presents the outcomes of the third International Conference on Information and Communication Technology for Intelligent Systems which was held on April 6-7 2018 in Ahmedabad India Divided into two volumes the book discusses the fundamentals of various data analytics and algorithms making it a valuable resource for researchers future studies

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