BIOMETRIC AUTHENTICATION

Computational Methods In Biometric Authentication

Tsuyoshi Takagi,Masahiro Mambo

Computational Methods In Biometric Authentication Computational Methods In Biometric Authentication:

    Computational Methods in Biometric Authentication Michael E. Schuckers,2010-06-03 Biometrics the science of using physical traits to identify individuals is playing an increasing role in our security conscious society and across the globe Biometric authentication or bioauthentication systems are being used to secure everything from amusement parks to bank accounts to military installations Yet developments in this field have not been matched by an equivalent improvement in the statistical methods for evaluating these systems Compensating for this need this unique text reference provides a basic statistical methodology for practitioners and testers of bioauthentication devices supplying a set of rigorous statistical methods for evaluating biometric authentication systems This framework of methods can be extended and generalized for a wide range of applications and tests This is the first single resource on statistical methods for estimation and comparison of the performance of biometric authentication systems The book focuses on six common performance metrics for each metric statistical methods are derived for a single system that incorporates confidence intervals hypothesis tests sample size calculations power calculations and prediction intervals These methods are also extended to allow for the statistical comparison and evaluation of multiple systems for both independent and paired data Topics and features Provides a statistical methodology for the most common biometric performance metrics failure to enroll FTE failure to acquire FTA false non match rate FNMR false match rate FMR and receiver operating characteristic ROC curves Presents methods for the comparison of two or more biometric performance metrics Introduces a new bootstrap methodology for FMR and ROC curve estimation Supplies more than 120 examples using publicly available biometric data where possible Discusses the addition of prediction intervals to the bioauthentication statistical toolset Describes sample size and power calculations for FTE FTA FNMR and FMR Researchers managers and decisions makers needing to compare biometric systems across a variety of metrics will find within this reference an invaluable set of statistical tools Written for an upper level undergraduate or master s level audience with a quantitative background readers are also expected to have an understanding of the topics in a typical undergraduate statistics course Dr Michael E Schuckers is Associate Professor of Statistics at St Lawrence University Canton NY and a member of the Center for Identification Technology Research   **Artificial Intelligence and Bioinspired Computational Methods** Radek Silhavy,2020-08-08 This book gathers the refereed proceedings of the Artificial Intelligence and Bioinspired Computational Methods Section of the 9th Computer Science On line Conference 2020 CSOC 2020 held on line in April 2020 Artificial intelligence and bioinspired computational methods now represent crucial areas of computer science research The topics presented here reflect the current discussion on cutting edge hybrid and bioinspired algorithms and their applications   Translating Healthcare Through Intelligent Computational Methods C. Ram Kumar,S. Karthik,2023-06-07 This book provides information on interdependencies of medicine and telecommunications engineering and how Covid exemplifies how the two must rely on each other to effectively function in this era The book discusses new

techniques for medical service improvisation such as clear cut views on medical technologies The authors provide chapters on processing of medical amenities using medical images the importance of data and information technology in medicine and machine learning and artificial intelligence in healthcare Authors include researchers academics and professionals in the field of communications engineering with a variety of perspectives **Proceedings of the International Workshop on Computational Intelligence in Security for Information Systems CISIS 2008** Emilio Corchado,Rodolfo Zunino,Paolo Gastaldo,2008-10-24 The research scenario in advanced systems for protecting critical infrastructures and for deeply networked information tools highlights a growing link between security issues and the need for intelligent processing abilities in the area of information s tems To face the ever evolving nature of cyber threats monitoring systems must have adaptive capabilities for continuous adjustment and timely effective response to modifications in the environment Moreover the risks of improper access pose the need for advanced identification methods including protocols to enforce comput security policies and biometry related technologies for physical authentication C putational Intelligence methods offer a wide variety of approaches that can be fruitful in those areas and can play a crucial role in the adaptive process by their ability to learn empirically and adapt a system s behaviour accordingly The International Workshop on Computational Intelligence for Security in Inf mation Systems CISIS proposes a meeting ground to the various communities volved in building intelligent systems for security namely information security data mining adaptive learning methods and soft computing among others The main goal is to allow experts and researchers to assess the benefits of learning methods in the data mining area for information security applications The Workshop offers the opportunity to interact with the leading industries actively involved in the critical area of security and have a picture of the current solutions adopted in practical domains This volume of Advances in Soft Computing contains accepted papers presented at CISIS 08 which was held in Genova Italy on October 23rd 24th 2008 **Computational Methods in Science and Technology** Sukhpreet Kaur,Sushil Kamboj,Manish Kumar,Arvind Dagur,Dhirendra Kumar Shukla,2024-10-10 This book contains the proceedings of the 4TH International Conference on Computational Methods in Science and Technology ICCMST 2024 The proceedings explores research and innovation in the field of Internet of things Cloud Computing Machine Learning Networks System Design and Methodologies Big Data Analytics and Applications ICT for Sustainable Environment Artificial Intelligence and it provides real time assistance and security for advanced stage learners researchers and academicians has been presented This will be a valuable read to researchers academicians undergraduate students postgraduate students and professionals within the fields of Computer Science Sustainability and Artificial Intelligence **Leveraging Computer Vision to Biometric Applications** Arvind Selwal,Deepika Sharma,Mukesh Mann,Sudeshna Chakraborty,Valentina E. Balas,Ouh Eng Lieh,2024-10-07 Computer vision is an effective solution in a diverse range of real life applications With the advent of the machine and deep learning paradigms this book adopts machine and deep learning algorithms to leverage digital image processing for designing

accurate biometrical applications In this aspect it presents the advancements made in computer vision to biometric applications design approach using emerging technologies It discusses the challenges of designing efficient and accurate biometric based systems which is a key issue that can be tackled via computer vision based techniques Key Features Discusses real life applications of emerging techniques in computer vision systems Offers solutions on real time computer vision and biometrics applications to cater to the needs of current industry Presents case studies to offer ideas for developing new biometrics based products Offers problem based solutions in the field computer vision and real time biometric applications for secured human authentication Works as a ready resource for professionals and scholars working on emerging topics of computer vision for biometrics The book is for academic researchers scholars and students in Computer Science Information Technology Electronics and Electrical Engineering Mechanical Engineering management academicians researchers scientists and industry people working on computer vision and biometrics applications **Computational Techniques for Human Smile Analysis** Hassan Ugail,Ahmad Ali Asad Aldahoud,2019-04-17 In this book the authors discuss the recent developments in computational techniques for automated non invasive facial emotion detection and analysis with particular focus on the smile By way of applications they discuss how genuine and non genuine smiles can be inferred how gender is encoded in a smile and how it is possible to use the dynamics of a smile itself as a biometric feature It is often said that the face is a window to the soul Bearing a metaphor of this nature in mind one might find it intriguing to understand if any how the physical behavioural as well as emotional characteristics of a person could be decoded from the face itself With the increasing deductive power of machine learning techniques it is becoming plausible to address such questions through the development of appropriate computational frameworks Though there are as many as over twenty five categories of emotions one could express regardless of the ethnicity gender or social class across humanity there exist six common emotions namely happiness sadness surprise fear anger and disgust all of which can be inferred from facial expressions Of these facial expressions the smile is the most prominent in social interactions The smile bears important ramifications with beliefs such as it makes one more attractive less stressful in upsetting situations and employers tending to promote people who smile often Even pockets of scientific research appear to be forthcoming to validate such beliefs and claims e g the smile intensity observed in photographs positively correlates with longevity the ability to win a fight and whether a couple would stay married Thus it appears that many important personality traits are encoded in the smile itself Therefore the deployment of computer based algorithms for studying the human smiles in greater detail is a plausible avenue for which the authors have dedicated the discussions in this book **Pattern Recognition, Computer Vision, and Image Processing. ICPR 2022 International Workshops and Challenges** Jean-Jacques Rousseau,Bill Kapralos,2023-08-09 This 4 volumes set constitutes the proceedings of the ICPR 2022 Workshops of the 26th International Conference on Pattern Recognition Workshops ICPR 2022 Montreal QC Canada August 2023 The 167 full papers presented in these 4 volumes were

carefully reviewed and selected from numerous submissions ICPR workshops covered domains related to pattern recognition artificial intelligence computer vision image and sound analysis Workshops contributions reflected the most recent applications related to healthcare biometrics ethics multimodality cultural heritage imagery affective computing etc

Implementing Computational Intelligence Techniques for Security Systems Design Albastaki, Yousif Abdullatif,Awad, Wasan,2020-02-14 Recently cryptology problems such as designing good cryptographic systems and analyzing them have been challenging researchers Many algorithms that take advantage of approaches based on computational intelligence techniques such as genetic algorithms genetic programming and so on have been proposed to solve these issues Implementing Computational Intelligence Techniques for Security Systems Design is an essential research book that explores the application of computational intelligence and other advanced techniques in information security which will contribute to a better understanding of the factors that influence successful security systems design Featuring a range of topics such as encryption self healing systems and cyber fraud this book is ideal for security analysts IT specialists computer engineers software developers technologists academicians researchers practitioners and students **Neural Information Processing** Bao-Liang Lu,Liqing Zhang,James Kwok,2011-10-26 The three volume set LNCS 7062 LNCS 7063 and LNCS 7064 constitutes the proceedings of the 18th International Conference on Neural Information Processing ICONIP 2011 held in Shanghai China in November 2011 The 262 regular session papers presented were carefully reviewed and selected from numerous submissions The papers of part I are organized in topical sections on perception emotion and development bioinformatics biologically inspired vision and recognition bio medical data analysis brain signal processing brain computer interfaces brain like systems brain realistic models for learning memory and embodied cognition Clifford algebraic neural networks combining multiple learners computational advances in bioinformatics and computational intelligent human computer interaction The second volume is structured in topical sections on cybersecurity and data mining workshop data mining and knowledge doscovery evolutionary design and optimisation graphical models human originated data analysis and implementation information retrieval integrating multiple nature inspired approaches kernel methods and support vector machines and learning and memory The third volume contains all the contributions connected with multi agent systems natural language processing and intelligent Web information processing neural encoding and decoding neural network models neuromorphic hardware and implementations object recognition visual perception modelling and advances in computational intelligence methods based pattern recognition *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

Computational Techniques for Dental Image Analysis Kamalanand, K.,Thayumanavan, B.,Jawahar, P. Mannar,2018-10-30 With the technology innovations dentistry has witnessed in all its branches over the past three decades the need for more precise diagnostic tools and advanced imaging methods has become mandatory across the industry Recent advancements to imaging systems are playing an important role in efficient diagnoses treatments and surgeries Computational Techniques for Dental Image Analysis provides innovative insights into computerized methods for automated analysis The research presented within this publication explores pattern recognition oral pathologies and diagnostic processing It is designed for dentists professionals medical educators medical imaging technicians researchers oral surgeons and students and covers topics centered on easier assessment of complex cranio facial tissues and the accurate diagnosis of various lesions at early stages *Computer Networks* N.B. Singh, Computer Networks is an accessible and comprehensive guide tailored for individuals with varying levels of expertise in computer science offering a holistic exploration of the intricate world of networking Designed for beginners and seasoned professionals alike this book delves into the fundamental concepts protocols and technologies that underpin modern computer networks Through clear explanations practical examples and real world applications readers will gain a deep understanding of how data is transmitted routed and managed across networks from local area networks LANs to wide area networks WANs and beyond With a focus on practicality and relevance this book equips readers with the knowledge and skills needed to design implement and troubleshoot networks effectively making it an invaluable resource for students practitioners and enthusiasts in the field of computer networking **Handbook of Research on Machine Learning Innovations and Trends** Hassanien, Aboul Ella,Gaber, Tarek,2017-04-03 Continuous improvements in technological applications have allowed more opportunities to develop automated systems This not only leads to higher success in smart data analysis but it increases the overall probability of technological progression The Handbook of Research on Machine Learning Innovations and Trends is a key resource on the latest advances and research regarding the vast range of advanced systems and applications involved in machine intelligence Highlighting multidisciplinary studies on decision theory intelligent search and multi agent systems this publication is an ideal reference source for professionals and researchers working in the field of machine learning and its applications *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 *Green, Pervasive, and Cloud Computing* Zhiwen Yu,Christian Becker,Guoliang Xing,2020-12-04 This book constitutes the refereed proceedings of the 15th International Conference on Green Pervasive and Cloud Computing GPC 2020 held in Xi an China in November 2020 The 30 full papers presented in this book together with 8 short papers were carefully reviewed and selected from 96 submissions They cover the following topics Device free Sensing Machine Learning Recommendation Systems Urban Computing Human Computer Interaction Internet of Things and Edge Computing Positioning Applications of Computer Vision CrowdSensing and Cloud and Related Technologies Advances in Information and Computer Security Tsuyoshi Takagi,Masahiro Mambo,2009-10-15 The Fourth International Workshop on Security IWSEC 2009 was held at Toyama International Conference Center Toyama Japan October 28 30 2009 The workshop was co organized by CSEC a special interest group on computer security of the IPSJ Information Processing Society of Japan and ISEC a technical group on information security of IEICE The Institute of Electronics Information and Communication Engineers The excellent Local Organizing Committee was led by the IWSEC 2009 General Co chairs Kazuo Takaragi and Hiroaki Kikuchi IWSEC2009received46papersubmissionsfromallovertheworld Wewould like to thank all the authors who submitted papers Eachpaper was reviewedby at least three reviewers In addition to the Program Committee members many externalreviewersjoinedthereviewprocessintheirparticularareasofexpertise We were fortunate to have this energetic team of experts and are grateful to all of them for their hard work The hard work includes very active discussion the discussion phase was almost as long as the initial individual reviewing The review and discussion were supported by a very nice Web based system iChair We thank its developers Following the review phases 13 papers were accepted for publication in this volume of Advances in Information and Computer Security Together with the contributed papers the workshop featured an invited talk and a hash function panel both of which were respectively given and chaired by eminent researcher Bart Preneel Katholieke Universiteit Leuven An abstract of the talk titled TheFutureofCryptographicAlgorithms isincludedinthisvolume Wedeeply appreciate his contribution Many people contributed to the success of IWSEC 2009 We wish to press our deep appreciation

for their contribution to information and computer security   *Computational Intelligence* T. Ananth Kumar,E. Golden Julie,Venkata Raghuveer Burugadda,Abhishek Kumar,Puneet Kumar,2024-11-27 This book provides a comprehensive exploration of computational intelligence techniques and their applications offering valuable insights into advanced information processing machine learning concepts and their impact on agile manufacturing systems Computational Intelligence presents a new concept for advanced information processing Computational Intelligence CI is the principle architecture implementation and growth of machine learning concepts that are physiologically and semantically inspired Computational Intelligence methods aim to develop an approach to evaluating and creating flexible processing of human information such as sensing understanding learning recognizing and thinking The Artificial Neural Network simulates the human nervous system s physiological characteristics and has been implemented numerically for non linear mapping Fuzzy Logic Systems simulate the human brain s psychological characteristics and have been used for linguistic translation through membership functions and bioinformatics The Genetic Algorithm simulates computer evolution and has been applied to solve problems with optimization algorithms for improvements in diagnostic and treatment technologies for various diseases To expand the agility and learning capacity of manufacturing systems these methods play essential roles This book will express the computer vision techniques that make manufacturing systems more flexible efficient robust adaptive and productive by examining many applications and research into computational intelligence techniques concerning the main problems in design making plans and manufacturing goods in agile manufacturing systems   *Dictionary of Information Science and Technology* Khosrow-Pour, Mehdi,2006-11-30 This book is the premier comprehensive reference source for the latest terms acronyms and definitions related to all aspects of information science and technology It provides the most current information to researchers on every level Provided by publisher   *Speed DNA Computing: A Formula Handbook* N.B. Singh, Speed DNA Computing A Formula Handbook is an indispensable guide that condenses the realm of DNA computing into essential formulas for swift comprehension and application Tailored for researchers bioinformaticians and enthusiasts in the field of DNA computing this handbook provides a quick reference for key equations related to DNA based algorithms molecular computations and bioinformatics Covering essential principles with clarity and precision the book facilitates a deeper understanding of this cutting edge intersection of computer science and biology With concise formulas it serves as a valuable resource for those seeking to harness the speed and potential of DNA computing in solving complex computational problems

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