Continuous Authentication Using Biometrics

Data, Models, and Metrics



Issa Traore & Ahmed Awad E. Ahmed

Continuous Authentication Using Biometrics Data Models And Metrics

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Continuous Authentication Using Biometrics: Data, Models, and Metrics Traore, Issa, Ahmed, Ahmed Awad E., 2011-09-30 User authentication is the process of verifying whether the identity of a user is genuine prior to granting him or her access to resources or services in a secured environment Traditionally user authentication is performed statically at the point of entry of the system however continuous authentication CA seeks to address the shortcomings of this method by providing increased session security and combating insider threat Continuous Authentication Using Biometrics Data Models and Metrics presents chapters on continuous authentication using biometrics that have been contributed by the leading experts in this recent fast growing research area These chapters collectively provide a thorough and concise introduction to the field of biometric based continuous authentication The book covers the conceptual framework underlying continuous authentication and presents detailed processing models for various types of practical continuous authentication applications

Continuous Authentication Using Biometrics Issa Baba Traoré, 2012 This book presents chapters on continuous authentication using biometrics covering the conceptual framework underlying continuous authentication and presenting detailed processing models for various types of practical continuous authentication applications Provided by publisher

Advances in Core Computer Science-Based Technologies George A. Tsihrintzis, Maria Virvou, 2020-06-18 This book introduces readers to some of the most significant advances in core computer science based technologies At the dawn of the 4th Industrial Revolution the field of computer science based technologies is growing continuously and rapidly and is developing both in itself and in terms of its applications in many other disciplines Written by leading experts and consisting of 18 chapters the book is divided into seven parts 1 Computer Science based Technologies in Education 2 Computer Science based Technologies in Risk Assessment and Readiness 3 Computer Science based Technologies in IoT Blockchains and Electronic Money 4 Computer Science based Technologies in Mobile Computing 5 Computer Science based Technologies in Scheduling and Transportation 6 Computer Science based Technologies in Medicine and Biology and 7 Theoretical Advances in Computer Science with Significant Potential Applications in Technology Featuring an extensive list of bibliographic references at the end of each chapter to help readers probe further into the application areas of interest to them this book is intended for professors researchers scientists engineers and students in computer science related disciplines It is also useful for those from other disciplines wanting to become well versed in some of the latest computer science based technologies

Advanced Information Networking and Applications Leonard Barolli, Isaac Woungang, Tomoya Enokido, 2021-04-26 This book covers the theory design and applications of computer networks distributed computing and information systems Networks of today are going through a rapid evolution and there are many emerging areas of information networking and their applications Heterogeneous networking supported by recent technological advances in low power wireless communications along with silicon integration of various functionalities such as sensing communications intelligence and

actuations is emerging as a critically important disruptive computer class based on a new platform networking structure and interface that enable novel low cost and high volume applications Several of such applications have been difficult to realize because of many interconnections problems To fulfill their large range of applications different kinds of networks need to collaborate and wired and next generation wireless systems should be integrated in order to develop high performance computing solutions to problems arising from the complexities of these networks The aim of the book Advanced Information Networking and Applications is to provide latest research findings innovative research results methods and development techniques from both theoretical and practical perspectives related to the emerging areas of information networking and ECCWS2015-Proceedings of the 14th European Conference on Cyber Warfare and Security 2015 Dr Nasser Abouzakhar, 2015-07-01 Complete proceedings of the 14th European Conference on Cyber Warfare and Security Hatfield UK Published by Academic Conferences and Publishing International Limited Advances in Computers ,2017-02-21 Advances in Computers the latest volume in the series published since 1960 presents detailed coverage of innovations in computer hardware software theory design and applications In addition it provides contributors with a medium in which they can explore their subjects in greater depth and breadth than journal articles usually allow As a result many articles have become standard references that continue to be of significant lasting value in this rapidly expanding field Provides in depth surveys and tutorials on new computer technology Presents well known authors and researchers in the field Contains extensive bibliographies with most chapters Includes volumes that are devoted to single themes or subfields of computer science

Computer Security. ESORICS 2021 International Workshops Sokratis Katsikas, Costas Lambrinoudakis, Nora Cuppens, John Mylopoulos, Christos Kalloniatis, Weizhi Meng, Steven Furnell, Frank Pallas, Jörg Pohle, M. Angela Sasse, Habtamu Abie, Silvio Ranise, Luca Verderame, Enrico Cambiaso, Jorge Maestre Vidal, Marco Antonio Sotelo Monge, 2022-02-07 This book constitutes the refereed proceedings of six International Workshops that were held in conjunction with the 26th European Symposium on Research in Computer Security ESORICS 2021 which took place during October 4 6 2021 The conference was initially planned to take place in Darmstadt Germany but changed to an online event due to the COVID 19 pandemic The 32 papers included in these proceedings stem from the following workshops the 7th Workshop on the Security of Industrial Control Systems and of Cyber Physical Systems CyberICPS 2021 which accepted 7 papers from 16 submissions the 5th International Workshop on Security and Privacy Requirements Engineering SECPRE 2021 which accepted 5 papers from 8 submissions the 4th International Workshop on Attacks and Defenses for Internet of Things ADIoT 2021 which accepted 6 full and 1 short paper out of 15 submissions the 3rd Workshop on Security Privacy Organizations and Systems Engineering SPOSE 2021 which accepted 5 full and 1 short paper out of 6 submissions and the 1st International Workshop on Cyber Defence Technologies and Secure Communications at the Network

Edge CDT SECOMANE 2021 which accepted 3 papers out of 7 submissions The following papers are available open access under a Creative Commons Attribution 4 0 International License via link springer com Why IT Security Needs Therapy by Uta Menges Jonas Hielscher Annalina Buckmann Annette Kluge M Angela Sasse and Imogen Verret Transferring Update Behavior from Smartphones to Smart Consumer Devices by Matthias Fassl Michaela Neumayr Oliver Schedler and Katharina Krombholz Organisational Contexts of Energy Cybersecurity by Tania Wallis Greig Paul and James Irvine SMILE Smart eMall Link domain Extractor by Mattia Mossano Benjamin Berens Philip Heller Christopher Beckmann Lukas Aldag Peter Mayer and Melanie Volkamer A Semantic Model for Embracing Privacy as Contextual Integrity in the Internet of Things by Salatiel Ezennaya Gomez Claus Vielhauer and Jana Dittmann Data Protection Impact Assessments in Practice Experiences from Case Studies by Michael Friedewald Ina Schiering Nicholas Martin and Dara Hallinan Encyclopedia of Cryptography, Security and Privacy Sushil Jajodia, Pierangela Samarati, Moti Yung, 2025-01-10 A rich stream of papers and many good books have been written on cryptography security and privacy but most of them assume a scholarly reader who has the time to start at the beginning and work his way through the entire text The goal of Encyclopedia of Cryptography Security and Privacy Third Edition is to make important notions of cryptography security and privacy accessible to readers who have an interest in a particular concept related to these areas but who lack the time to study one of the many books in these areas The third edition is intended as a replacement of Encyclopedia of Cryptography and Security Second Edition that was edited by Henk van Tilborg and Sushil Jajodia and published by Springer in 2011 The goal of the third edition is to enhance on the earlier edition in several important and interesting ways First entries in the second edition have been updated when needed to keep pace with the advancement of state of the art Second as noticeable already from the title of the encyclopedia coverage has been expanded with special emphasis to the area of privacy Third considering the fast pace at which information and communication technology is evolving and has evolved drastically since the last edition entries have been expanded to provide comprehensive view and include coverage of several newer topics 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 Biometric Authentication in Online Learning Environments Kumar, A.V.

Senthil, 2019-02-15 Student assessment in online learning is submitted remotely without any face to face interaction and therefore student authentication is widely seen as one of the major challenges in online examination Authentication is the process of determining whether someone or something is in fact who or what it is declared to be As the dependence upon computers and computer networks grows especially within education the need for authentication has increased Biometric Authentication in Online Learning Environments provides innovative insights into biometrics as a strategy to mitigate risk and provide authentication while introducing a framework that provides security to improve e learning and on line examination by utilizing biometric based authentication techniques This book examines e learning security threats in online exams security considerations and biometric technologies and is designed for IT professionals higher education administrators professors researchers business professionals academicians and libraries seeking topics centered on biometrics as an authentication strategy within educational environments **Emerging Technologies for Authorization and** Authentication Andrea Saracino, Paolo Mori, 2022-01-13 This book constitutes the proceedings of the 4th International Workshop on Emerging Technologies for Authorization and Authentication ETAA 2021 held in Darmstadt Germany on October 8 2021 The workshop was co located with ESORICS 2021 The 11 full papers presented in this volume were carefully reviewed and selected from 14 submissions The workshop presents new techniques for biometric and behavioral based authentication authentication and authorization in the IoT and in distributed systems in general including smart home Information Quality in e-Health Andreas Holzinger, Klaus-Martin Simonic, 2011-11-18 This book environment constitutes the refereed proceedings of the 7th Conference of the Workgroup Human Computer Interaction and Usability Engineering of the Austrian Computer Society USAB 2011 in Graz Austria in November 2011 The 18 revised full papers together with 29 revised short papers and 2 posters presented were carefully reviewed and selected from 103 submissions The papers are organized in topical sections on cognitive approaches to clinical data management for decision support human computer interaction and knowledge discovery in databases hci kdd information usability and clinical workflows education and patient empowerment patient empowerment and health services information visualization knowledge analytics information usability and accessibility governmental health services clinical routine information retrieval and knowledge discovery decision making support technology acceptance information retrieval privacy clinical routine usability and accessibility methodologies information usability and knowledge discovery human centred computing and biomedical informatics in health professional education **Multimodal Biometrics and Intelligent Image Processing for Security** Systems Gavrilova, Marina L., Monwar, Maruf, 2013-03-31 This book provides an in depth description of existing and fresh fusion approaches for multimodal biometric systems covering relevant topics affecting the security and intelligent industries Provided by publisher Knowledge Discovery, Knowledge Engineering and Knowledge Management Ana Fred, David Aveiro, Jan L. G. Dietz, Kecheng Liu, Jorge Bernardino, Ana Salgado, Joaquim Filipe, 2019-03-14 This book

constitutes the thoroughly refereed proceedings of the 9th International Joint Conference on Knowledge Discovery
Knowledge Engineering and Knowledge Management IC3K 2017 held in Funchal Madeira Portugal in November 2017 The 19
full papers presented were carefully reviewed and selected from 157 submissions The papers are organized in topical
sections on knowledge discovery and information retrieval knowledge engineering and ontology development and knowledge
management and information sharing

Security and Privacy in Communication Networks Robert Deng, Jian Weng, Kui
Ren, Vinod Yegneswaran, 2017-06-13 This book constitutes the refereed conference proceedings of the 12th International
Conference on Security and Privacy in Communications Networks SecureComm 2016 held in Guangzhou China in October
2016 The 32 revised full papers and 18 poster papers were carefully reviewed and selected from 137 submissions The papers
are organized thematically starting with mobile and network security followed by applied cryptography web security and
privacy system security hardware security The volume also includes papers from the ATCS workshop and the poster session

Machine Learning Techniques for Gait Biometric Recognition James Eric Mason, Issa Traoré, Isaac Woungang, 2016-02-04 This book focuses on how machine learning techniques can be used to analyze and make use of one particular category of behavioral biometrics known as the gait biometric A comprehensive Ground Reaction Force GRF based Gait Biometrics Recognition framework is proposed and validated by experiments In addition an in depth analysis of existing recognition techniques that are best suited for performing footstep GRF based person recognition is also proposed as well as a comparison of feature extractors normalizers and classifiers configurations that were never directly compared with one another in any previous GRF recognition research Finally a detailed theoretical overview of many existing machine learning techniques is presented leading to a proposal of two novel data processing techniques developed specifically for the purpose of gait biometric recognition using GRF This book introduces novel machine learning based temporal normalization techniques bridges research gaps concerning the effect of footwear and stepping speed on footstep GRF based person recognition provides detailed discussions of key research challenges and open research issues in gait biometrics recognition compares biometrics systems trained and tested with the same footwear against those trained and tested with different footwear Psycholinquistics and Cognition in Language Processing Buğa, Duygu, Cosqun Ögeyik, Muhlise, 2018-03-02 The relationship between language and psychology is one that has been studied for centuries Influencing one another these two fields uncover how the human mind s processes are interrelated Psycholinguistics and Cognition in Language Processing is a critical scholarly resource that examines the mystery of language and the obscurity of psychology using innovative studies Featuring coverage on a broad range of topics such as language acquisition emotional aspects in foreign language learning and speech learning model this book is geared towards linguists academicians practitioners and researchers seeking current research on the cognitive and emotional synthetisation of multilingualism **Deconstructing Stigma in Mental Health** Canfield, Brittany A., Cunningham, Holly A., 2018-05-11 Stigma continues to play an integral role in the multifaceted issues

facing mental health While identifying a clear operational definition of stigma has been a challenge in the field the issues related to stigma grossly affect not only the mental health population but society as a whole Deconstructing Stigma in Mental Health provides emerging research on issues related to stigma as a whole including ignorance prejudice and discrimination While highlighting issues such as stigma and its role in mental health and how stigma is perpetuated in society this publication explores the historical context of stigma current issues and resolutions through intersectional collaboration and the deconstruction of mental health stigmas This book is a valuable resource for mental health administrators and clinicians researchers educators policy makers and psychology professionals seeking information on current mental health stigma Trends and Applications in Knowledge Discovery and Data Mining Huiping Cao, Jinyan Li, Ruili trends Wang, 2016-07-15 This book constitutes the thoroughly referred post workshop proceedings at PAKDD Workshops 2016 held in conjunction with PAKDD the 20th Pacific Asia Conference on Knowledge Discovery and Data Mining in Auckland New Zealand in April 2016 The 23 revised papers presented were carefully reviewed and selected from 38 submissions The workshops affiliated with PAKDD 2016 include Biologically Inspired Data Mining Techniques BDM Machine Learning for Sensory Data Analysis MLSDA Predictive Analytics for Critical Care PACC as well as Data Mining in Business and Finance **Information and Communications Security** Jianying Zhou, Xiapu Luo, Qingni Shen, Zhen Xu, 2020-02-17 This **WDMBF** book constitutes the refereed proceedings of the 21th International Conference on Information and Communications Security ICICS 2019 held in Beijing China in December 2019 The 47 revised full papers were carefully selected from 199 submissions The papers are organized in topics on malware analysis and detection IoT and CPS security enterprise network security software security system security authentication applied cryptograph internet security machine learning security machine learning privacy Web security steganography and steganalysis

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