चेहऱ्यावरून ओळख पटवताना सावधान!

चेहऱ्यावरून माणसाची ओळख जाणून घेण्याचा प्रयत्न करणारे 'फेशियल रेकग्निशन' तंत्रज्ञान कितपत अचूकपणे काम करू शकते? अगदी आदर्श परिस्थिती असेल तर हे तंत्रज्ञान जवळपास अचूकपणे माणसाला ओळखू शकते. प्रत्यक्षात मात्र अशी आदर्श परिस्थिती असेलच असे सांगता येत नसल्यामुळे या तंत्रज्ञानाच्या अचूकतेवर मर्यादा येऊ शकतात. एकूणच कृत्रिम बुद्धिमत्तेचा संपूर्ण डोलाराच त्याला आपण उपलब्ध करून देत असलेल्या माहितीच्या प्रमाणावर आणि अचूकतेवर उभारलेला असतो. त्यामुळे त्यातच पुरेशी सखोलता नसेल तर 'फेशियल रेकग्निशन'चे तंत्रज्ञानसुद्धा एका प्रमाणापलीकडे अचूक अंदाज बांधू शकत नाही. साध्या तरी या तंत्रज्ञानाची अचूकता मोजण्यासाठीचे मापक उपलब्ध नाही; पण अर्थातच एका ठरावीक प्रयोगामध्ये त्याची अचूकता किती होती, हे मात्र आपण नक्कीच मोजू शकतो.

चित्रामधली चेहऱ्याची जागा, प्रकाश, कुठल्याही अडथळ्याविना चेहऱ्याचे सगळे तपशील दिसणे, पार्श्वभूमी, कॅमेऱ्याचा दर्जा आणि चित्रामधले तपशील अशा अनेक गोष्टींमुळे 'फेशियल रेकग्निशन' तंत्रज्ञानाच्या अचूकतेवर परिणाम होऊ शकतो.

याखेरीज वयानुसार माणसाच्या चेहऱ्यात बदल होत जातात आणि त्यामुळेही या तंत्रज्ञानाची फसगत होऊ शकते. साहजिकच कृत्रिम बुद्धिमत्तेच्या एकूण वापरांमधल्या धोक्यांसंबंधीचा इशारा 'फेशियल रेकग्निशन' तंत्रज्ञानालाही अर्थातच लागू पडतो. याचा गैरवापर, त्याने दिलेले चुकीचे निर्णय या सगळ्यांचा विचार करून मगच त्याचा वापर केला जाणे योग्य ठरेल. तसेच जर कुणाच्या चेहऱ्याचे तपशील साठवून ठेवायचे असतील तर ही माहिती इतर कुणाच्या हाती लागून तिचा गैरवापर होऊ नये यासाठी संबंधित माणसाचे नाव आणि त्याचे छायाचित्र तसेच त्याच्याविषयीचे तपशील यांच्यामधला परस्परसंबंध पूर्णपणे वेगळा करून साठवणे रास्त ठरेल.

कृत्रिम बुद्धिमत्तेच्या एकूण तंत्रज्ञानाप्रमाणे 'फेशियल रेकग्निशन'च्या तंत्रज्ञानातही आपण आपल्याला हव्या त्या पातळीनुसार मिळत असलेल्या निकालांचा अन्वयार्थ लागू शकतो. उदाहरणार्थ समजा माणसाचा चेहरा ओळखून त्यानुसार लगेच त्याला पुढची कृती आपोआप करू द्यायची असेल तर त्यासाठी आपण ९९ टक्के अशी पातळी ठरवू शकतो. उदाहरणार्थ समजा विमानतळावर प्रवेश करत असताना एखाद्या प्रवाशाच्या चेहऱ्यामधील अपेक्षित तपशिलांतील ९९ टक्के तपशील जुळत असतील तर त्याला विना अडथळा पुढे जाऊ दिले जावे. मात्र हा आकडा ९९ टक्क्यांच्या खाली असेल तर तिथले दार त्याला अडवेल आणि सुरक्षा रक्षकाच्या तपासणीनंतरच तो प्रवासी पुढे जाऊ शकेल.

कृत्रिम बुद्धिमत्तेच्या अफाट जगामधला एक कळीचा दुवा म्हणून 'फेशियल रेकग्निशन' तंत्रज्ञानाचे महत्त्व उद्याच्या जगात अनन्यसाधारण असेल, हे वेगळे सांगण्याची गरज नाही!

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Atul Kahate Authentication Chapter

Yasser M. Alginahi,Muhammad Nomani Kabir

Atul Kahate Authentication Chapter:

Identity Management for Internet of Things Parikshit N. Mahalle,Poonam N. Railkar,2022-09-01 The Internet of Things is a wide reaching network of devices and these devices can intercommunicate and collaborate with each other to produce variety of services at any time any place and in any way Maintaining access control authentication and managing the identity of devices while they interact with other devices services and people is an important challenge for identity management The identity management presents significant challenges in the current Internet communication These challenges are exacerbated in the internet of things by the unbound number of devices and expected limitations in constrained resources Current identity management solutions are mainly concerned with identities that are used by end users and services to identify themselves in the networked world However these identity management solutions are designed by considering that significant resources are available and applicability of these identity management solutions to the resource constrained internet of things needs a thorough analysis Technical topics discussed in the book include Internet of Things Identity Management Identity models in Internet of Things Identity management and trust in the Internet of Things context Authentication and access control Identitymanagement for Internet of Things contributes to the area of identity management for ubiquitous devices in the Internet of Things It initially presents the motivational factors together with the identity management problems in the context of Internet of Things and proposes an identity management framework Following this it refers to the major challenges for Identitymanagement and presents different identity management models This book also presents relationship between identity and trust different approaches for trust management authentication and access control **Introduction to Database Management Systems:** Kahate, Atul,2006 Introduction to Database Management Systems is designed specifically for a single semester namely the first course on Database Systems The book covers all the essential aspects of database systems and also covers the areas of RDBMS The book in *XML & Related Technologies* Atul Kahate,2009 XML has become the standard for all kinds of integration and deployment of applications regardless of the technology platform XML Related Technologies covers all aspects of dealing with XML both from a conceptual as well as from a practical po *Computer Communication Networks* Achyut S. Godbole,2004 **Protocols for Authentication and Key Establishment** Colin Boyd,Anish Mathuria,Douglas Stebila,2019-11-06 This book is the most comprehensive and integrated treatment of the protocols required for authentication and key establishment In a clear uniform presentation the authors classify most protocols in terms of their properties and resource requirements and describe all the main attack types so the reader can quickly evaluate protocols for particular applications In this edition the authors introduced new chapters and updated the text throughout in response to new developments and updated standards The first chapter an introduction to authentication and key establishment provides the necessary background on cryptography attack scenarios and protocol goals A new chapter computational security models describes computational models for key exchange

and authentication and will help readers understand what a computational proof provides and how to compare the different computational models in use In the subsequent chapters the authors explain protocols that use shared key cryptography authentication and key transport using public key cryptography key agreement protocols the Transport Layer Security protocol identity based key agreement password based protocols and group key establishment The book is a suitable graduate level introduction and a reference and overview for researchers and practitioners with 225 concrete protocols described In the appendices the authors list and summarize the relevant standards linking them to the main book text when appropriate and they offer a short tutorial on how to build a key establishment protocol The book also includes a list of protocols a list of attacks a summary of the notation used in the book general and protocol indexes and an extensive bibliography   **Authentication** Richard E. Smith,2002 Authentication is the way computers can confidently associate an identity with a person This book examines the problem that networking professionals face in choosing and using different techniques for reliably identifying computer users protecting against attacks and employing various methods of security

   Authentication and Access Control Sirapat Boonkrong,2021-02-28 Cybersecurity is a critical concern for individuals and for organizations of all types and sizes Authentication and access control are the first line of defense to help protect you from being attacked This book begins with the theoretical background of cryptography and the foundations of authentication technologies and attack mechanisms You will learn about the mechanisms that are available to protect computer networks systems applications and general digital technologies Different methods of authentication are covered including the most commonly used schemes in password protection two factor authentication and multi factor authentication You will learn how to securely store passwords to reduce the risk of compromise Biometric authentication a mechanism that has gained popularity over recent years is covered including its strengths and weaknesses Authentication and Access Control explains the types of errors that lead to vulnerabilities in authentication mechanisms To avoid these mistakes the book explains the essential principles for designing and implementing authentication schemes you can use in real world situations Current and future trends in authentication technologies are reviewed What You Will Learn Understand the basic principles of cryptography before digging into the details of authentication mechanisms Be familiar with the theories behind password generation and the different types of passwords including graphical and grid based passwords Be aware of the problems associated with the use of biometrics especially with establishing a suitable level of biometric matching or the biometric threshold value Study examples of multi factor authentication protocols and be clear on the principles Know how to establish authentication and how key establishment processes work together despite their differences Be well versed on the current standards for interoperability and compatibility Consider future authentication technologies to solve today s problems Who This Book Is For Cybersecurity practitioners and professionals researchers and lecturers as well as undergraduate and postgraduate students looking for supplementary information to expand their knowledge on authentication mechanisms

<u>Who Goes There?</u> National Research Council,Division on Engineering and Physical Sciences,Computer Science and Telecommunications Board,Committee on Authentication Technologies and Their Privacy Implications,2003-09-22 Who Goes There Authentication Through the Lens of Privacy explores authentication technologies passwords PKI biometrics etc and their implications for the privacy of the individuals being authenticated As authentication becomes ever more ubiquitous understanding its interplay with privacy is vital The report examines numerous concepts including authentication authorization identification privacy and security It provides a framework to guide thinking about these issues when deciding whether and how to use authentication in a particular context The book explains how privacy is affected by system design decisions It also describes government s unique role in authentication and what this means for how government can use authentication with minimal invasions of privacy In addition Who Goes There outlines usability and security considerations and provides a primer on privacy law and policy **Authentication Technologies for Cloud Computing, IoT and Big Data** Yasser M. Alginahi,Muhammad Nomani Kabir,2019-03-11 Critical systems and infrastructure rely heavily on ICT systems and networks where security issues are a major concern Authentication methods verify that messages come from trusted sources and guarantee the smooth flow of information and data In this edited reference the authors present state of art research and development in authentication technologies including challenges and applications for Cloud Technologies IoT and Big Data Topics covered include authentication cryptographic algorithms digital watermarking biometric authentication block ciphers with applications in IoT identification schemes for Cloud and IoT authentication issues for Cloud applications cryptography engines for Cloud based on FPGA and data protection laws

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