

Development Of Attendance System Using Biometric

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[Army Biometric Applications](#) - John D. Woodward 2001-08-20

Every human possesses more than one virtually infallible form of identification. Known as biometrics, examples include fingerprints, iris and retinal scans, hand geometry, and other measures of physical characteristics and personal traits. Advances in computers and related technologies have made this a highly automated process through which recognition occurs almost instantaneously. With concern about its information assurance systems and physical access control increasing, the Army has undertaken an assessment of how it can use biometrics to improve security, efficiency, and convenience. This report examines the sociocultural concerns that arise among soldiers, civilian employees, and the general public when the military mandates widespread use of biometrics. The authors see no significant legal obstacles to Army use of biometrics but recommend that the Army go beyond the provisions of the Privacy Act of 1974 to allay concerns related to this emerging technology. This report should be of interest to those responsible for access control as well as anyone concerned about privacy and technology issues.

The InfoSec Handbook - Umesha Nayak 2014-09-17

The InfoSec Handbook offers the reader an organized layout of information that is easily read and understood. Allowing beginners to enter the field and understand the key concepts and ideas, while still keeping the experienced readers updated on topics and concepts. It is intended mainly for beginners to the field of information security, written in a way that makes it easy for them to understand the detailed content of the book. The book offers a practical and simple view of the security practices while still offering somewhat technical and detailed information relating to security. It helps the reader build a strong foundation of information, allowing them to move forward from the book with a larger knowledge base. Security is a constantly growing concern that everyone must deal with. Whether it's an average computer user or a highly skilled computer user, they are always confronted with different security risks. These risks range in danger and should always be dealt with accordingly. Unfortunately, not everyone is aware of the dangers or how to prevent them and this is where most of the issues arise in information technology (IT). When computer users do not take security into account many issues can arise from that like system compromises or loss of data and information. This is an obvious issue that is present with all computer users. This book is intended to educate the average and experienced user of what kinds of different security practices and standards exist. It will also cover how to manage security software and updates in order to be as protected as possible from all of the threats that they face.

[Biometric Recognition](#) - National Research Council 2010-12-12

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.

Techno-Societal 2020 - Prashant M. Pawar 2021-05-19

This book, divided in two volumes, originates from Techno-Societal 2020: the 3rd International Conference on Advanced Technologies for Societal Applications, Maharashtra, India, that brings together faculty members of various engineering colleges to solve Indian regional relevant problems under the guidance of eminent researchers from various reputed organizations. The focus of this volume is on technologies that help develop and improve society, in particular on issues such as sensor and ICT based technologies for the betterment of people, Technologies for agriculture and healthcare, micro and nano technological applications. This conference aims to help innovators to share their best practices or products developed to solve specific local problems which in turn may help the other researchers to take inspiration to solve problems in their region. On the other hand, technologies proposed by expert researchers may find applications in different regions. This offers a multidisciplinary platform for researchers from a broad range of disciplines of Science, Engineering and Technology for reporting innovations at different levels.

Challenges and Applications for Implementing Machine Learning in Computer Vision - Kashyap, Ramgopal 2019-10-04

Machine learning allows for non-conventional and productive answers for issues within various fields, including problems related to visually perceptive computers. Applying these strategies and algorithms to the area of computer vision allows for higher achievement in tasks such as spatial recognition, big data collection, and image processing. There is a need for research that seeks to understand the development and efficiency of current methods that enable machines to see. Challenges and Applications for Implementing Machine Learning in Computer Vision is a collection of innovative research that combines theory and practice on adopting the latest deep learning advancements for machines capable of visual processing. Highlighting a wide range of topics such as video segmentation, object recognition, and 3D modelling, this publication is ideally designed for computer scientists, medical professionals, computer engineers, information technology practitioners, industry experts, scholars, researchers, and students seeking current research on the utilization of evolving computer vision techniques.

[Implementing Biometric Security](#) - John Chirillo 2003-05-09

* Biometrics authentication, which relies on fingerprints, speech, or other physical characteristics, is an increasingly important means of protecting critical data * Gives security professionals specific guidelines,

applications, and procedures for implementing a biometric security system in a LAN, WAN, or wireless infrastructure * Covers fingerprint identification, hand geometry, speaker recognition, face location, retina scanning, and multibiometrics * Companion Web site contains articles, papers, source code, and product guides

Near Field Communication (NFC) - Vedat Coskun 2011-12-28

This book provides the technical essentials, state-of-the-art knowledge, business ecosystem and standards of Near Field Communication (NFC) by NFC Lab - Istanbul research centre which conducts intense research on NFC technology. In this book, the authors present the contemporary research on all aspects of NFC, addressing related security aspects as well as information on various business models. In addition, the book provides comprehensive information a designer needs to design an NFC project, an analyzer needs to analyze requirements of a new NFC based system, and a programmer needs to implement an application. Furthermore, the authors introduce the technical and administrative issues related to NFC technology, standards, and global stakeholders. It also offers comprehensive information as well as use case studies for each NFC operating mode to give the usage idea behind each operating mode thoroughly. Examples of NFC application development are provided using Java technology, and security considerations are discussed in detail. Key Features: Offers a complete understanding of the NFC technology, including standards, technical essentials, operating modes, application development with Java, security and privacy, business ecosystem analysis Provides analysis, design as well as development guidance for professionals from administrative and technical perspectives Discusses methods, techniques and modelling support including UML are demonstrated with real cases Contains case studies such as payment, ticketing, social networking and remote shopping This book will be an invaluable guide for business and ecosystem analysts, project managers, mobile commerce consultants, system and application developers, mobile developers and practitioners. It will also be of interest to researchers, software engineers, computer scientists, information technology specialists including students and graduates.

Nursing Informatics 2016 - W. Sermeus 2016-07-21

As the importance of electronic and digital devices in the provision of healthcare increases, so does the need for interdisciplinary collaboration to make the most of the new technical possibilities which have become available. This book presents the proceedings of the 13th International Conference on Nursing Informatics, held in Geneva, Switzerland, in June 2016. This biennial international conference provides one of the most important opportunities for healthcare professionals from around the world to gather and exchange expertise in the research and practice of both basic and applied nursing informatics. The theme of this 13th conference is eHealth for All: Every Level Collaboration - From Project to Realization. The book includes all full papers, as well as workshops, panels and poster summaries from the conference. Subjects covered include a wide range of topics, from robotic assistance in managing medication to intelligent wardrobes, and from low-cost wearables for fatigue and back stress management to big data analytics for optimizing work processes, and the book will be of interest to all those working in the design and provision of healthcare today.

Student Attendance System - Journals for All Staff 2017-02-13

Large 8.5 Inches By 11 Inches Attendance Log Book. 100 pages of attendance records 30 Names Per Pages Get Your Copy Today

Sustainable Radio Frequency Identification Solutions - Cristina Turcu 2010-02-01

Radio frequency identification (RFID) is a fascinating, fast developing and multidisciplinary domain with emerging technologies and applications. It is characterized by a variety of research topics, analytical methods, models, protocols, design principles and processing software. With a relatively large range of applications, RFID enjoys extensive investor confidence and is poised for growth. A number of RFID applications proposed or already used in technical and scientific fields are described in this book.

Sustainable Radio Frequency Identification Solutions comprises 19 chapters written by RFID experts from all over the world. In investigating RFID solutions experts reveal some of the real-life issues and challenges in implementing RFID.

Attendance Management - Stephen Bevan 1998

It is estimated that sickness absence costs the UK economy u11 billion each year. With changes to the sick

pay rules, and growing concerns over workplace stress, many employers are continually seeking ways of managing attendance. This report looks at how this can be done, and reviews the policies of over 30 leading UK organizations to present a model of good practice. The report also highlights key international research findings on absence."

Proceedings of the Third International Conference on Microelectronics, Computing and Communication Systems - Vijay Nath 2019-05-23

The book presents high-quality papers from the Third International Conference on Microelectronics, Computing & Communication Systems (MCCS 2018). It discusses the latest technological trends and advances in MEMS and nanoelectronics, wireless communications, optical communication, instrumentation, signal processing, image processing, bioengineering, green energy, hybrid vehicles, environmental science, weather forecasting, cloud computing, renewable energy, RFID, CMOS sensors, actuators, transducers, telemetry systems, embedded systems, and sensor network applications. It includes papers based on original theoretical, practical and experimental simulations, development, applications, measurements, and testing. The applications and solutions discussed in the book provide excellent reference material for future product development.

Critical Socio-Technical Issues Surrounding Mobile Computing - Mohamed, Norshidah 2015-10-19

As lifestyles in personal and public spheres become more fast-paced and hectic, the need for reliable mobile technologies becomes increasingly important. Insights into the various impacts of mobile applications pave the way for future advances and developments in communication and interaction. Critical Socio-Technical Issues Surrounding Mobile Computing is a pivotal reference source for research-based perspectives on the use and application of mobile technology in modern society. Featuring extensive research on a variety of topics relating to the social, technical, and behavioral perspectives of mobile applications, this book is an essential reference source for mobile application developers, instructors, practitioners, and students interested in current research on the impact of mobile devices on individuals and society as a whole.

Internet of Things for Sustainable Community Development - Abdul Salam 2019-12-28

This book covers how Internet of Things (IoT) has a role in shaping the future of our communities. The author shows how the research and education ecosystem promoting impactful solutions-oriented science can help citizenry, government, industry, and other stakeholders to work collaboratively in order to make informed, socially-responsible, science-based decisions. Accordingly, he shows how communities can address complex, interconnected socio-environmental challenges. This book addresses the key inter-related challenges in areas such as the environment, climate change, mining, energy, agro-economic, water, and forestry that are limiting the development of a sustainable and resilient society -- each of these challenges are tied back to IoT based solutions. Presents research into sustainable IoT with respect to wireless communications, sensing, and systems Provides coverage of IoT technologies in sustainability, health, agriculture, climate change, mining, energy, water management, and forestry Relevant for academics, researchers, policy makers, city planners and managers, technicians, and industry professionals in IoT and sustainability

9th International Conference on Humanoid, Nanotechnology, Information Technology, Communication and Control, Environment and Management - 2017

Advances in Visual Informatics - Halimah Badioze Zaman 2017-11-13

This book constitutes the refereed proceedings of the 5th International Conference on Advances in Visual Informatics, IVIC 2017, held in Bangi, Malaysia, in November 2017. The keynote and 72 papers presented were carefully reviewed and selected from 130 submissions. The papers are organized in the following topics: Visualization and Data Driven Technology; Engineering and Data Driven Innovation; Data Driven Societal Well-being and Applications; and Data Driven Cyber Security.

Micro-Electronics and Telecommunication Engineering - Devendra Kumar Sharma 2022-02-28

The book presents high-quality papers from the Fourth International Conference on Microelectronics and Telecommunication Engineering (ICMETE 2021). It discusses the latest technological trends and advances in major research areas such as microelectronics, wireless communications, optical communication, signal processing, image processing, big data, cloud computing, artificial intelligence and sensor network

applications. This book includes the contributions of national and international scientists, researchers, and engineers from both academia and the industry. The contents of this volume will be useful to researchers, professionals, and students alike.

International Conference on Multi disciplinary Technologies and challenges in Industry 4.0 - Dr. Prakash s, dr. Silvia liberataullo, dr. Yogesh g s, dr. I manimozhi, prof. Shilpa patil.

Introducing Biometric Technology in Elections - Peter Wolf 2017-06-20

A credible voter register gives legitimacy to the electoral process and helps prevent electoral fraud. However, voter registration remains a complex and contested task. It is one of the most important activities that an electoral management body needs to conduct, but it is also one of the most costly in terms of both time and resources. Many countries that face challenges in creating an accurate voter register are considering reforming their voter registration systems through the introduction of biometric technologies. The drive towards biometrics has been facilitated by its largely apolitical nature. Investing in high-tech solutions allows stakeholders to demonstrate their commitment to resolving electoral problems. At the same time, expectations on biometric solutions may be exaggerated. This guide provides an overview of key concepts and considerations for all stakeholders involved in discussions about the application of biometrics in elections, both for voter registration before an election and for voter verification at polling stations on election day.

2021 1st Odisha International Conference on Electrical Power Engineering, Communication and Computing Technology(ODICON) - IEEE Staff 2021-01-08

The First Odisha Conference(ODICON 2021) aims to bring together researchers, scientists, engineers, and scholar students to exchange and share their experiences, new ideas, and research results about all aspects of Engineering, Science and technology especially relevant to sustainable and clean energy In addition to the discussions during the conference, ample opportunities will be available for interaction with professionals and researchers to share the operational experiences and views on the key issues in Renewable Energy, Power Engineering and Power Electronics technology, communication engineering, smart grid, computational intelligence, IoT etc

Handbook of Fingerprint Recognition - Davide Maltoni 2006-04-06

A major new professional reference work on fingerprint security systems and technology from leading international researchers in the field. Handbook provides authoritative and comprehensive coverage of all major topics, concepts, and methods for fingerprint security systems. This unique reference work is an absolutely essential resource for all biometric security professionals, researchers, and systems administrators.

Automatic Fingerprint Recognition Systems - Nalini Ratha 2007-05-08

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.

Security and Access Control Using Biometric Technologies - Robert Newman 2009-09-03

Security and Access Control Using Biometric Technologies presents an introduction to biometrics or the study of recognizing individuals based on their unique physical or behavioral traits, as they relate to computer security. The book begins with the basics of biometric technologies and discusses how and why biometric systems are emerging in information security. An emphasis is directed towards authentication, authorization, identification, and access control. Topics covered include security and management required to protect valuable computer and network resources and assets, and methods of providing control over access and security for computers and networks. Written for a broad level of readers, this book applies to information system and information technology students, as well as network managers, security administrators and other practitioners. Oriented towards the practical application of biometrics in the real world, Security and Access Control Using Biometric Technologies provides the reader with a realistic view of the use of biometrics in the ever-changing industry of information security. Important Notice: Media

content referenced within the product description or the product text may not be available in the ebook version.

Futuristic Trends for Sustainable Development and Sustainable Ecosystems - Ortiz-Rodriguez, Fernando 2022-06-24

A key focus in recent years has been on sustainable development and promoting environmentally conscious practices. In today's rapidly evolving technological world, it is important to consider how technology can be applied to solve problems across disciplines and fields in these areas. Further study is needed in order to understand how technology can be applied to sustainability and the best practices, considerations, and challenges that follow. Futuristic Trends for Sustainable Development and Sustainable Ecosystems discusses recent advances and innovative research in the area of information and communication technology for sustainable development and covers practices in several artificial intelligence fields such as knowledge representation and reasoning, natural language processing, machine learning, and the semantic web. Covering topics such as blockchain, deep learning, and renewable energy, this reference work is ideal for computer scientists, industry professionals, researchers, academicians, scholars, instructors, and students.

Information Science and Applications 2018 - Kuinam J. Kim 2018-07-23

This book contains selected papers from the 9th International Conference on Information Science and Applications (ICISA 2018) and provides a snapshot of the latest issues encountered in technical convergence and convergences of security technology. It explores how information science is core to most current research, industrial and commercial activities and consists of contributions covering topics including Ubiquitous Computing, Networks and Information Systems, Multimedia and Visualization, Middleware and Operating Systems, Security and Privacy, Data Mining and Artificial Intelligence, Software Engineering, and Web Technology. The proceedings introduce the most recent information technology and ideas, applications and problems related to technology convergence, illustrated through case studies, and reviews converging existing security techniques. Through this volume, readers will gain an understanding of the current state-of-the-art information strategies and technologies of convergence security. The intended readership includes researchers in academia, industry and other research institutes focusing on information science and technology.

Biometric System and Data Analysis - Ted Dunstone 2008-10-31

This book brings together aspects of statistics and machine learning to provide a comprehensive guide to evaluating, interpreting and understanding biometric data. It naturally leads to topics including data mining and prediction to be examined in detail. The book places an emphasis on the various performance measures available for biometric systems, what they mean, and when they should and should not be applied. The evaluation techniques are presented rigorously, however they are always accompanied by intuitive explanations. This is important for the increased acceptance of biometrics among non-technical decision makers, and ultimately the general public.

Innovations in Computer Science and Engineering - H. S. Saini 2018-05-25

The book is a collection of high-quality peer-reviewed research papers presented at the Fifth International Conference on Innovations in Computer Science and Engineering (ICICSE 2017) held at Guru Nanak Institutions, Hyderabad, India during 18-19 August 2017. The book discusses a wide variety of industrial, engineering and scientific applications of the engineering techniques. Researchers from academic and industry present their original work and exchange ideas, information, techniques and applications in the field of Communication, Computing and Data Science and Analytics.

Internet of Things Programming Projects - Colin Dow 2018-10-31

A practical project-based guide to help you build and control your IoT projects Key FeaturesLeverage the full potential of IoT with the combination of Raspberry Pi 3 and PythonBuild complex Python-based applications with IoTWork on various IoT projects and understand the basics of electronicsBook Description The Internet of Things (IOT) has managed to attract the attention of researchers and tech enthusiasts, since it powerfully combines classical networks with instruments and devices. In Internet of Things Programming Projects, we unleash the power of Raspberry Pi and Python to create engaging projects. In the first part of the book, you'll be introduced to the Raspberry Pi, learn how to set it up, and then jump right into Python

programming. Then, you'll dive into real-world computing by creating a "Hello World" app using flash LEDs. As you make your way through the chapters, you'll go back to an age when analog needle meters ruled the world of data display. You'll learn to retrieve weather data from a web service and display it on an analog needle meter, and build a home security system using the Raspberry Pi. The next project has a modern twist, where we employ the Raspberry Pi to send a signal to a web service that will send you a text when someone is at the door. In the final project, you take what you've learned from the previous two projects and create an IoT robot car that you can use to monitor what your pets are up to when you are away. By the end of this book, you will be well versed in almost every possible way to make your IoT projects stand out. What you will learn

Install and set up a Raspberry Pi for IoT development
Learn how to use a servo motor as an analog needle meter to read data
Build a home security dashboard using an infrared motion detector
Communicate with a web service that sends you a message when the doorbell rings
Receive data and display it with an actuator connected to the Raspberry Pi
Build an IoT robot car that is controlled through the internet

Who this book is for
Internet of Things Programming Projects is for Python developers and programmers who are interested in building their own IoT applications and IoT-based projects. It is also targeted at IoT programmers and developers who are looking to build exciting projects with Python.

Intelligent Sustainable Systems - Atulya K. Nagar 2021-12-16

This book provides insights of World Conference on Smart Trends in Systems, Security and Sustainability (WS4 2021) 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 two volumes. The book is helpful for active researchers and practitioners in the field.

Advanced Biometric Technologies - Girija Chetty 2011-08-09

The methods for human identity authentication based on biometrics - the physiological and behavioural characteristics of a person have been evolving continuously and seen significant improvement in performance and robustness over the last few years. However, most of the systems reported perform well in controlled operating scenarios, and their performance deteriorates significantly under real world operating conditions, and far from satisfactory in terms of robustness and accuracy, vulnerability to fraud and forgery, and use of acceptable and appropriate authentication protocols. To address some challenges, and the requirements of new and emerging applications, and for seamless diffusion of biometrics in society, there is a need for development of novel paradigms and protocols, and improved algorithms and authentication techniques. This book volume on "Advanced Biometric Technologies" is dedicated to the work being pursued by researchers around the world in this area, and includes some of the recent findings and their applications to address the challenges and emerging requirements for biometric based identity authentication systems. The book consists of 18 Chapters and is divided into four sections namely novel approaches, advanced algorithms, emerging applications and the multimodal fusion. The book was reviewed by editors Dr. Girija Chetty and Dr. Jucheng Yang We deeply appreciate the efforts of our guest editors: Dr. Norman Poh, Dr. Loris Nanni, Dr. Jianjiang Feng, Dr. Dongsun Park and Dr. Sook Yoon, as well as a number of anonymous reviewers.

Europe and MENA Cooperation Advances in Information and Communication Technologies - Álvaro Rocha 2016-09-25

This book contains a selection of articles from The Europe, Middle East and North Africa Conference on Technology and Security to Support Learning 2016 (EMENA-TSSL'16), held between the 3th and 5th of October at Saidia, Oujda, Morocco. EMENA-TSSL'16 is a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences and challenges in Information & Communication Technologies, and Security to support Learning. The main topics covered are: A) Online Education; B) Emerging Technologies in Education; C) Artificial Intelligence in Education; D) Gamification and Serious games; E) Network & Web Technologies Applications; F) Online experimentation and Virtual Laboratories; G) Multimedia Systems and Applications; H) Security and Privacy; I) Multimedia, Computer Vision and Image Processing; J) Cloud, Big Data Analytics and Applications; K) Human-Computer Interaction; L) Software Systems, Architectures, Applications and Tools; M) Online Languages and Natural

Language Processing N) E-content Development, Assessment and Plagiarism; O) Secure E-Learning Development and Auditing; P) Internet of Things and Wireless Sensor Networks.

Information and Communication Technology and Applications - Sanjay Misra 2021-02-13

This book constitutes revised selected papers from the Third International Conference on Information and Communication Technology and Applications, ICTA 2020, held in Minna, Nigeria, in November 2020. Due to the COVID-19 pandemic the conference was held online. The 67 full papers were carefully reviewed and selected from 234 submissions. The papers are organized in the topical sections on Artificial Intelligence, Big Data and Machine Learning; Information Security Privacy and Trust; Information Science and Technology.

Biometric Systems - James L. Wayman 2005-12-06

Biometric Systems provides practitioners with an overview of the principles and methods needed to build reliable biometric systems. It covers three main topics: key biometric technologies, design and management issues, and the performance evaluation of biometric systems for personal verification/identification. The four most widely used technologies are focused on - speech, fingerprint, iris and face recognition. Key features include: in-depth coverage of the technical and practical obstacles which are often neglected by application developers and system integrators and which result in shortfalls between expected and actual performance; and protocols and benchmarks which will allow developers to compare performance and track system improvements.

Future Data and Security Engineering - Tran Khanh Dang 2021-11-18

This book constitutes the proceedings of the 8th International Conference on Future Data and Security Engineering, FDSE 2021, which was supposed to be held in Ho Chi Minh City, Vietnam, in November 2021, but the conference was held virtually due to the COVID-19 pandemic. The 24 full papers presented together with 2 invited keynotes were carefully reviewed and selected from 168 submissions. The selected papers are organized into the following topical headings: Big Data Analytics and Distributed Systems; Advances in Machine Learning for Big Data Analytics; Industry 4.0 and Smart City: Data Analytics and Security; Blockchain and IoT Applications; Machine Learning and Artificial Intelligence for Security and Privacy; Emerging Data Management Systems and Applications.

Introduction to Biometrics - Anil K. Jain 2011-11-18

Biometric recognition, or simply biometrics, is the science of establishing the identity of a person based on physical or behavioral attributes. It is a rapidly evolving field with applications ranging from securely accessing one's computer to gaining entry into a country. While the deployment of large-scale biometric systems in both commercial and government applications has increased the public awareness of this technology, "Introduction to Biometrics" is the first textbook to introduce the fundamentals of Biometrics to undergraduate/graduate students. The three commonly used modalities in the biometrics field, namely, fingerprint, face, and iris are covered in detail in this book. Few other modalities like hand geometry, ear, and gait are also discussed briefly along with advanced topics such as multibiometric systems and security of biometric systems. Exercises for each chapter will be available on the book website to help students gain a better understanding of the topics and obtain practical experience in designing computer programs for biometric applications. These can be found at: <http://www.csee.wvu.edu/~ross/BiometricsTextBook/>. Designed for undergraduate and graduate students in computer science and electrical engineering, "Introduction to Biometrics" is also suitable for researchers and biometric and computer security professionals.

International Proceedings on Advances in Soft Computing, Intelligent Systems and Applications - M. Sreenivasa Reddy 2017-12-28

The book focuses on the state-of-the-art technologies pertaining to advances in soft computing, intelligent system and applications. The Proceedings of ASISA 2016 presents novel and original work in soft computing, intelligent system and applications by the experts and budding researchers. These are the cutting edge technologies that have immense application in various fields. The papers discuss many real world complex problems that cannot be easily handled with traditional mathematical methods. The exact solution of the problems at hand can be achieved with soft computing techniques. Soft computing represents a collection of computational techniques inheriting inspiration from evolutionary algorithms,

nature inspired algorithms, bio-inspired algorithms, neural networks and fuzzy logic.

Intelligent Systems for Social Good - Shyamapada Mukherjee

Web, Artificial Intelligence and Network Applications - Leonard Barolli 2019-03-14

The aim of the book 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 Web Computing, Intelligent Systems and Internet Computing. As the Web has become a major source of information, techniques and methodologies that extract quality information are of paramount importance for many Web and Internet applications. Data mining and knowledge discovery play key roles in many of today's prominent Web applications such as e-commerce and computer security. Moreover, the outcome of Web services delivers a new platform for enabling service-oriented systems. The emergence of large scale distributed computing paradigms, such as Cloud Computing and Mobile Computing Systems, has opened many opportunities for collaboration services, which are at the core of any Information System. Artificial Intelligence (AI) is an area of computer science that build intelligent systems and algorithms that work and react like humans. The AI techniques and computational intelligence are powerful tools for learning, adaptation, reasoning and planning. They have the potential to become enabling technologies for the future intelligent networks. Recent research in the field of intelligent systems, robotics, neuroscience, artificial intelligence and cognitive sciences are very important for the future development and innovation of Web and Internet applications.

Template Matching Techniques in Computer Vision - Roberto Brunelli 2009-04-29

The detection and recognition of objects in images is a key research topic in the computer vision community. Within this area, face recognition and interpretation has attracted increasing attention owing to the possibility of unveiling human perception mechanisms, and for the development of practical biometric systems. This book and the accompanying website, focus on template matching, a subset of object recognition techniques of wide applicability, which has proved to be particularly effective for face recognition applications. Using examples from face processing tasks throughout the book to illustrate more general object recognition approaches, Roberto Brunelli: examines the basics of digital image formation, highlighting points critical to the task of template matching; presents basic and advanced template matching techniques, targeting grey-level images, shapes and point sets; discusses recent pattern classification paradigms from a template matching perspective; illustrates the development of a real face recognition system; explores the use of advanced computer graphics techniques in the development of computer vision algorithms. Template Matching Techniques in Computer Vision is primarily aimed at practitioners working on the development of systems for effective object recognition such as biometrics, robot navigation, multimedia retrieval and landmark detection. It is also of interest to graduate students undertaking studies in these areas.

Development of a Networked Thumb Print-Based Staff Attendance System - Segun Olatinwo 2013

As a means to solve problems associated with staff attendance management, this book attempts to design and implement a networked thumb-print based attendance system for employee's management in organizations, institutions, etc. In other to achieve the stated aim, this book employs biometric technology for it implementation. The new proposed system is more efficient to the traditional manual attendance system.