

Intelligent Wireless Video Camera Using Computer

Intelligent Network Video

Continuing in the tradition of the bestselling first edition, this book examines networked surveillance video solutions. It provides the latest details on industry hardware, software, and networking capabilities of the latest cameras and DVRs. It addresses in full detail updated specifications on MPEG-4 and other digital video formats, resolution advantages of analog

v. digital, intelligent video capabilities, frame rate control, and indoor/outdoor installations factors. New chapters include cloud computing, standards, and thermal cameras.

Intelligent Network Video

Offering ready access to the security industry's cutting-edge digital future, Intelligent Network Video provides the first complete reference for all those involved with developing, implementing, and maintaining the latest surveillance systems. Pioneering expert Fredrik Nilsson explains how IP-based video surveillance systems provide better image quality, and a more scalable and flexible system at lower cost. A complete and practical reference for all those in the field, this volume: Describes all components relevant to modern

Intelligent Wireless Video Camera Using Computer

IP video surveillance systems
Provides in-depth information
about image, audio,
networking, and compression
technologies Discusses
intelligent video architectures
and applications Offers a
comprehensive checklist for
those designing a network
video system, as well as a
systems design tool on DVD
Nilsson guides readers through
a well-organized tour of the
building blocks of modern video
surveillance systems, including
network cameras, video
encoders, storage, servers,
sensors, and video
management. From there, he
explains intelligent video,
looking at the architectures and
typical applications associated
with this exciting technology.
Taking a hands-on approach
that meets the needs of those
working in the industry, this
timely volume, illustrated with
more than 300 color photos,
supplies readers with a deeper
understanding of how

surveillance technology has developed and, through application, demonstrates why its future is all about intelligent network video.

Video Surveillance

This book presents the latest achievements and developments in the field of video surveillance. The chapters selected for this book comprise a cross-section of topics that reflect a variety of perspectives and disciplinary backgrounds. Besides the introduction of new achievements in video surveillance, this book also presents some good overviews of the state-of-the-art technologies as well as some interesting advanced topics related to video surveillance. Summing up the wide range of issues presented in the book, it can be addressed to a quite

broad audience, including both academic researchers and practitioners in halls of industries interested in scheduling theory and its applications. I believe this book can provide a clear picture of the current research status in the area of video surveillance and can also encourage the development of new achievements in this field.

Intelligent Video Surveillance

The goal of Intelligent video surveillance systems is to efficiently extract useful information from a considerable number of videos collected by surveillance cameras by automatically detecting, tracking and recognizing objects of interest, and understanding and analyzing their activities. Video surveillance has a huge amount

of applications, from public to private places. These applications require monitoring indoor and outdoor scenes. Nowadays, there are a considerable number of digital surveillance cameras collecting a huge amount of data on a daily basis. Researchers are urged to develop intelligent systems to efficiently extract and visualize useful information from this big data source. The exponential effort on the development of new algorithms and systems for video surveillance is confirmed by the amount of effort invested in projects and companies, the creation on new startups worldwide and, not less important, in the quantity and quality of the manuscripts published in a considerable number of journals and conferences worldwide. This book is an outcome of research done by several researchers who have highly contributed to the field of Video Surveillance.

The main goal is to present recent advances in this important topic for the Image Processing community.

Advances in Mobile Computing and Multimedia Intelligence

This book constitutes the refereed proceedings of the 21st International Conference on Advances in Mobile Computing and Multimedia Intelligence, MoMM2023, organized in conjunction with the 25th International Conference on Information Integration and Web Intelligence, iiWAS 2023, held in Denpasar, Bali, Indonesia, during December 4-6, 2023. The 10 full papers and 5 short papers presented in this book were carefully reviewed and selected from 37 submissions. The papers are divided into the following topical sections:

security in mobile environments; mobile computing and wireless sensors; and image and video processing.

Intelligent Network Video

The third edition traces the trajectory of video surveillance technology from its roots to its current state and into its potential future role in security and beyond. For the reader, it is an opportunity to explore what the latest technology has to offer, as well as to gain some insight into the direction that surveillance will take us in the years ahead. The revised edition of Intelligent Network Video is more comprehensive in every area than the first and second editions, printed in over 25,000 copies. There is also a new chapter on cybersecurity, as well as thoroughly revised

chapters on cloud and analytics. The book takes the reader on a tour through the building blocks of intelligent network video – from imaging to network cameras and video encoders, through the IT technologies of network and storage and into video management, analytics, and system design.

Introduction to Intelligent Surveillance

This practically-oriented textbook introduces the fundamentals of designing digital surveillance systems powered by intelligent computing techniques. The text offers comprehensive coverage of each aspect of the system, from camera calibration and data capture, to the secure transmission of surveillance data, in addition to the detection and recognition of

individual biometric features and objects. The coverage concludes with the development of a complete system for the automated observation of the full lifecycle of a surveillance event, enhanced by the use of artificial intelligence and supercomputing technology. This updated third edition presents an expanded focus on human behavior analysis and privacy preservation, as well as deep learning methods. Topics and features: contains review questions and exercises in every chapter, together with a glossary; describes the essentials of implementing an intelligent surveillance system and analyzing surveillance data, including a range of biometric characteristics; examines the importance of network security and digital forensics in the communication of surveillance data, as well as issues of privacy and ethics; discusses the Viola-Jones object detection method, and the HOG algorithm

for pedestrian and human behavior recognition; reviews the use of artificial intelligence for automated monitoring of surveillance events, and decision-making approaches to determine the need for human intervention; presents a case study on a system that triggers an alarm when a vehicle fails to stop at a red light, and identifies the vehicle's license plate number; investigates the use of cutting-edge supercomputing technologies for digital surveillance, such as FPGA, GPU and parallel computing. This concise and accessible work serves as a classroom-tested textbook for graduate-level courses on intelligent surveillance. Researchers and engineers interested in entering this area will also find the book suitable as a helpful self-study reference.

Applied Video Processing in Surveillance and Monitoring Systems

Video monitoring has become a vital aspect within the global society as it helps prevent crime, promote safety, and track daily activities such as traffic. As technology in the area continues to improve, it is necessary to evaluate how video is being processed to improve the quality of images. *Applied Video Processing in Surveillance and Monitoring Systems* investigates emergent techniques in video and image processing by evaluating such topics as segmentation, noise elimination, encryption, and classification. Featuring real-time applications, empirical research, and vital frameworks within the field, this publication is a critical reference source for researchers, professionals, engineers, academicians, advanced-level students, and

technology developers.

Recent Advances in Computer Science and Information Engineering

CSIE 2011 is an international scientific Congress for distinguished scholars engaged in scientific, engineering and technological research, dedicated to build a platform for exploring and discussing the future of Computer Science and Information Engineering with existing and potential application scenarios. The congress has been held twice, in Los Angeles, USA for the first and in Changchun, China for the second time, each of which attracted a large number of researchers from all over the world. The congress turns out to develop a spirit of cooperation that leads to new friendship for addressing a wide variety of ongoing

problems in this vibrant area of technology and fostering more collaboration over the world. The congress, CSIE 2011, received 2483 full paper and abstract submissions from 27 countries and regions over the world. Through a rigorous peer review process, all submissions were refereed based on their quality of content, level of innovation, significance, originality and legibility. 688 papers have been accepted for the international congress proceedings ultimately.

Ad Hoc Networks

Ad hoc networks refer to the wireless networking paradigm that covers a variety of network forms for specific purposes, such as mobile ad hoc networks, sensor networks, vehicular networks, underwater networks, underground networks, personal area

networks, and home networks. The various forms of ad hoc networks promise a broad scope of applications in civilian, commercial, and military areas, which have led to significant new research problems and challenges, and have attracted great efforts from academia, industry, and government. This unique networking paradigm necessitates re-examination of many established wireless networking concepts and protocols, and calls for developing new fundamental understanding of problems such as interference, mobility, connectivity, capacity, and security, among others. While it is essential to advance theoretical research on fundamentals and practical research on efficient algorithms and protocols, it is also critical to develop useful applications, experimental prototypes, and real-world deployments to achieve a practical impact on our society for the success of

this networking paradigm. The annual International Conference on Ad Hoc Networks (AdHocNets) is a new event that aims at providing a forum to bring together researchers from academia as well as practitioners from industry and government to meet and exchange ideas and recent research work on all aspects of ad hoc networks. As the first edition of this event, AdHocNets 2009 was successfully held in Niagara Falls, Ontario, Canada, during September 22-25, 2009.

Intelligent Video Surveillance

From the streets of London to subway stations in New York City, hundreds of thousands of surveillance cameras ubiquitously collect hundreds of thousands of videos, often running 24/7. How can such

vast volumes of video data be stored, analyzed, indexed, and searched? How can advanced video analysis and systems autonomously recognize people and detect targeted activities real-time? Collating and presenting the latest information Intelligent Video Surveillance: Systems and Technology explores these issues, from fundamentals principle to algorithmic design and system implementation. An Integrated discussion of key research and applications Written and edited by a collection of industry experts, the book presents state-of-the-art technologies and systems in intelligent video surveillance. The book integrates key research, design, and implementation themes of intelligent video surveillance systems and technology into one comprehensive reference. The chapters cover the computational principles behind the technologies and systems

and include system implementation issues as well as examples of successful applications of these technologies. Builds a foundation for future developments Changing appearance caused by changing viewpoints, illumination, expression, and movement, self/cross body occlusion, modeling of cluttered background capable of efficient background subtraction for object detection, and spatial and temporal alignment of multiple cameras are just a few of the challenges that remain in further developing and refining intelligent video surveillance technology and systems. Fully illustrated with line art, tables, and photographs demonstrating the collected video and results obtained using the related algorithms, including a color plate section, the book provides a high-level blueprint for advances and insights into

future directions of the field.

Computer Networks & Communications (NetCom)

Computer Networks & Communications (NetCom) is the proceedings from the Fourth International Conference on Networks & Communications. This book covers theory, methodology and applications of computer networks, network protocols and wireless networks, data communication technologies, and network security. The proceedings will feature peer-reviewed papers that illustrate research results, projects, surveys and industrial experiences that describe significant advances in the diverse areas of computer networks & communications.

Intelligent Systems and Applications

This book presents the proceedings of the International Computer Symposium 2014 (ICS 2014), held at Tunghai University, Taichung, Taiwan in December. ICS is a biennial symposium founded in 1973 and offers a platform for researchers, educators and professionals to exchange their discoveries and practices, to share research experiences and to discuss potential new trends in the ICT industry. Topics covered in the ICS 2014 workshops include: algorithms and computation theory; artificial intelligence and fuzzy systems; computer architecture, embedded systems, SoC and VLSI/EDA; cryptography and information security; databases, data mining, big data and information retrieval; mobile computing, wireless communications and vehicular

technologies; software engineering and programming languages; healthcare and bioinformatics, among others. There was also a workshop on information technology innovation, industrial application and the Internet of Things. ICS is one of Taiwan's most prestigious international IT symposiums, and this book will be of interest to all those involved in the world of information technology.

Intelligent Technical Systems

Intelligent technical systems are networked, embedded systems incorporating real-time capacities that are able to interact with and adapt to their environments. These systems need innovative approaches in order to meet requirements like cost, size, power and memory consumption, as well as real-

time compliance and security. Intelligent Technical Systems covers different levels like multimedia systems, embedded programming, middleware platforms, sensor networks and autonomous systems and applications for intelligent engineering. Each level is discussed by a set of original articles summarizing the state of the art and presenting a concrete application; they include a deep discussion of their model and explain all design decisions relevant to obtain a mature solution.

Advances in Swarm Intelligence, Part II

The two-volume set (LNCS 6728 and 6729) constitutes the refereed proceedings of the International Conference on Swarm Intelligence, ICSI 2011, held in Chongqing, China, in June 2011. The 143 revised full

papers presented were carefully reviewed and selected from 298 submissions. The papers are organized in topical sections on theoretical analysis of swarm intelligence algorithms, particle swarm optimization, applications of pso algorithms, ant colony optimization algorithms, bee colony algorithms, novel swarm-based optimization algorithms, artificial immune system, differential evolution, neural networks, genetic algorithms, evolutionary computation, fuzzy methods, and hybrid algorithms - for part I. Topics addressed in part II are such as multi-objective optimization algorithms, multi-robot, swarm-robot, and multi-agent systems, data mining methods, machine learning methods, feature selection algorithms, pattern recognition methods, intelligent control, other optimization algorithms and applications, data fusion and swarm intelligence, as well

as fish school search -
foundations and applications.

Advances in Smart Vehicular Technology, Transportation, Communication and Applications

This book presents papers from the First International Conference on Smart Vehicular Technology, Transportation, Communication and Applications (VTCA 2017). Held from 6 to 8 November 2017 in Kaohsiung, Taiwan, the conference was co-sponsored by Springer, Fujian University of Technology in China, Fujian Provincial Key Laboratory of Digital Equipment, Fujian Provincial Key Lab of Big Data Mining and Applications, and National Kaohsiung University of Applied Sciences in Taiwan. The book is a valuable resource for researchers and

professionals engaged in all areas of smart vehicular technology, vehicular transportation, vehicular communication, and applications.

Smart Cameras

A smart camera is an integrated machine vision system which, in addition to image capture circuitry, includes a processor, which can extract information from images without need for an external processing unit, and interface devices used to make results available to other devices. This book provides content on smart cameras for an interdisciplinary audience of professionals and students in embedded systems, image processing, and camera technology. It serves as a self-contained, single-source reference for material otherwise found only in sources

such as conference proceedings, journal articles, or product data sheets. Coverage includes the 50 year chronology of smart cameras, their technical evolution, the state-of-the art, and numerous applications, such as surveillance and monitoring, robotics, and transportation.

Internet Business Intelligence

Business intelligence--the acquisition, management, and utilization of information--is crucial in the global marketplace of the 21st century. This savvy handbook explains how even the smallest firm can use inexpensive Web resources to create an Internet Business Intelligence System (IBIS) that rivals the multimillion-dollar systems of Fortune 500 companies. IBIS tracks competitors, explore

markets, and evaluates opportunities and risks. It can also be used to launch a business, find customers, test new products, and increase sales.

Intelligent Computing, Information and Control Systems

From past decades, Computational intelligence embraces a number of nature-inspired computational techniques which mainly encompasses fuzzy sets, genetic algorithms, artificial neural networks and hybrid neuro-fuzzy systems to address the computational complexities such as uncertainties, vagueness and stochastic nature of various computational problems practically. At the same time, Intelligent Control systems are emerging as an innovative methodology which

is inspired by various computational intelligence process to promote a control over the systems without the use of any mathematical models. To address the effective use of intelligent control in Computational intelligence systems, International Conference on Intelligent Computing, Information and Control Systems (ICICCS 2019) is initiated to encompass the various research works that helps to develop and advance the next-generation intelligent computing and control systems. This book integrates the computational intelligence and intelligent control systems to provide a powerful methodology for a wide range of data analytics issues in industries and societal applications. The recent research advances in computational intelligence and control systems are addressed, which provide very promising results in various industry,

business and societal studies. This book also presents the new algorithms and methodologies for promoting advances in common intelligent computing and control methodologies including evolutionary computation, artificial life, virtual infrastructures, fuzzy logic, artificial immune systems, neural networks and various neuro-hybrid methodologies. This book will be pragmatic for researchers, academicians and students dealing with mathematically intransigent problems. It is intended for both academicians and researchers in the field of Intelligent Computing, Information and Control Systems, along with the distinctive readers in the fields of computational and artificial intelligence to gain more knowledge on Intelligent computing and control systems and their real-world applications.

Intelligent Distributed Video Surveillance Systems

There is a growing interest in the development and deployment of intelligent surveillance systems in public and private locations. This book consists of a selection of extended versions of presentations made in two symposia on intelligent distributed surveillance systems (IDSS) and brings together the latest developments in the field.

Wireless Communication with Artificial Intelligence

This reference text discusses advances in wireless communication, design challenges, and future research directions to design reliable wireless communication. The text discusses emerging

technologies including wireless sensor networks, Internet of Things (IoT), cloud computing, mm-Wave, Massive MIMO, cognitive radios (CR), visible light communication (VLC), wireless optical communication, signal processing, and channel modeling. The text covers artificial intelligence-based applications in wireless communication, machine learning techniques and challenges in wireless sensor networks, and deep learning for channel and bandwidth estimation during optical wireless communication. The text will be useful for senior undergraduate, graduate students, and professionals in the fields of electrical engineering, and electronics and communication engineering.

Artificial Intelligence

This book constitutes the proceedings of the 19th Russian Conference on Artificial Intelligence, RCAI 2021, held in Moscow, Russia, in October 2021. The 19 full papers and 7 short papers presented in this volume were carefully reviewed and selected from 80 submissions. The conference deals with a wide range of topics, categorized into the following topical headings: cognitive research; data mining, machine learning, classification; knowledge engineering; multi-agent systems and robotics; natural language processing; fuzzy models and soft computer; intelligent systems; and tools for designing intelligent systems.

The Intelligent Wireless Web

The authors provide insight into the convergence of two of the biggest current trends in the Internet: the growth of the wireless Web and the growth of the intelligent Web.

Digital TV and Wireless Multimedia Communications

This book presents revised selected papers from the 18th International Forum on Digital TV and Wireless Multimedia Communication, IFTC 2021, held in Shanghai, China, in December 2021. The 41 papers presented in this volume were carefully reviewed and selected from 110 submissions. They were organized in topical sections on image analysis; quality assessment; target detection; video processing; big

data.

Intelligent Multimedia Surveillance

Intelligent multimedia surveillance concerns the analysis of multiple sensing inputs including video and audio streams, radio-frequency identification (RFID), and depth data. These data are processed for the automated detection and tracking of people, vehicles, and other objects. The goal is to locate moving targets, to understand their behavior, and to detect suspicious or abnormal activities for crime prevention. Despite its benefits, there is societal apprehension regarding the use of such technology, so an important challenge in this research area is to balance public safety and privacy. This edited book presents recent findings in the field of intelligent multimedia

surveillance emerging from disciplines such as multimedia computing, computer vision, and artificial intelligence. It consists of nine chapters addressing intelligent video surveillance, video analysis of crowds, privacy issues in intelligent multimedia surveillance, RFID technology for localization of objects, object tracking using visual saliency information, estimating multiresolution depth using active stereo vision, and performance evaluation for video surveillance systems. The book will be of value to researchers and practitioners working on related problems in security, multimedia, and artificial intelligence.

**Innovative Technologies
in Intelligent Systems
and Industrial**

Applications

This book presents the proceedings of the 7th International Conference on Innovative Technologies in Intelligent Systems & Industrial Application (CITISIA), held in virtual mode in Kuala Lumpur, Malaysia, and Sydney, Australia on November 16-18, 2022. It showcases advances and innovations in Industry 4.0, smart society 5.0, mobile technologies, smart manufacturing, smart data fusion, hybrid intelligence, cloud computing, and digital society.

Intelligent Video Surveillance Systems

This book will provide an overview of techniques for visual monitoring including video surveillance and human activity understanding. It will

present the basic techniques of processing video from static cameras, starting with object detection and tracking. The author will introduce further video analytic modules including face detection, trajectory analysis and object classification. Examining system design and specific problems in visual surveillance, such as the use of multiple cameras and moving cameras, the author will elaborate on privacy issues focusing on approaches where automatic processing can help protect privacy.

ICSETPSD 2023

The International Conference on Science, Engineering and Technology Practices for Sustainable Development (ICSETPSD-23) brought researchers, scientists, engineers, industrial

professionals, and scholar students for the dissemination of original research results, new ideas, and practical development experiences which concentrate on both theory and practices from around the world in all the areas of science, engineering, and technology practices for sustainable development. The theme of ICSETPSD-23 was "Science, Engineering and Technology for sustainable development". The technical program of ICSETPSD-23 consisted of 140 full papers, scheduled for oral presentation sessions at the main conference tracks. The conference tracks were: Track 1 - Science for sustainable development; Track 2 - Sustainability through Engineering; Track 3 - Sustainable developments in Health Care; and Track 4 - Technology practices for sustainability. Aside from the high quality technical paper presentations, the technical

program also featured eight keynote speeches and one invited talk. We strongly believe that ICSETPSD-23 conference provides a good forum for all researchers, developers, and practitioners to discuss all science and technology aspects that are relevant to sustainable developments. We also expect that the future ICSETPSD conference will be as successful and stimulating, as indicated by the contributions presented in this volume.

Smart Spaces and Next Generation Wired/Wireless Networking

The LNCS series reports state-of-the-art results in computer science research, development, and education, at a high level and in both printed and electronic form. Enjoying tight cooperation with the R & D

community, with numerous individuals, as well as with prestigious organizations and societies, LNCS has grown into the most comprehensive computer science research forum available. The scope of LNCS, including its subseries LNAI and LNBI, spans the whole range of computer science and information technology including interdisciplinary topics in a variety of application fields. The type of material published traditionally includes proceedings (published in time for the respective conference) post-proceedings (consisting of thoroughly revised final full papers) research monographs (which may be based on outstanding PhD work, research projects, technical reports, etc.) More recently, several color-cover sublines have been added featuring, beyond a collection of papers, various added - value components; these sublines include tutorials (textbook - like

monographs or collections of lectures given at advanced courses) state - of - the art surveys (offering complete and mediate coverage of a topic) hot topics (introducing emergent topics to the broader community) In parallel to the printed book, each new volume is published electronically in LNCS Online Book jacket.

Nature-Inspired Computing for Smart Application Design

This book focuses primarily on the nature-inspired approach for designing smart applications. It includes several implementation paradigms such as design and path planning of wireless network, security mechanism and implementation for dynamic as well as static nodes, learning method of cloud computing, data exploration and management, data analysis

and optimization, decision taking in conflicting environment, etc. The book fundamentally highlights the recent research advancements in the field of engineering and science.

Activity Recognition in Pervasive Intelligent Environments

This book consists of a number of chapters addressing different aspects of activity recognition, roughly in three main categories of topics. The first topic will be focused on activity modeling, representation and reasoning using mathematical models, knowledge representation formalisms and AI techniques. The second topic will concentrate on activity recognition methods and algorithms. Apart from traditional methods based on data mining and machine

learning, we are particularly interested in novel approaches, such as the ontology-based approach, that facilitate data integration, sharing and automatic/automated processing. In the third topic we intend to cover novel architectures and frameworks for activity recognition, which are scalable and applicable to large scale distributed dynamic environments. In addition, this topic will also include the underpinning technological infrastructure, i.e. tools and APIs, that supports function/capability sharing and reuse, and rapid development and deployment of technological solutions. The fourth category of topic will be dedicated to representative applications of activity recognition in intelligent environments, which address the life cycle of activity recognition and their use for novel functions of the end-user systems with comprehensive

implementation, prototyping and evaluation. This will include a wide range of application scenarios, such as smart homes, intelligent conference venues and cars.

Linux Smart Homes For Dummies

A Linux smart home is about controlling and monitoring devices and information around your home using a standard personal computer, Linux, and its vast array of open source tools. You don't have to be a master programmer to create one. If you like to tinker with Linux, *Linux Smart Homes For Dummies* will guide you through cool home automation projects that are as much fun to work on as they are to use. Home automation used to be limited to turning on lights and appliances, and maybe controlling your thermostat and

lawn sprinkler, from your computer. While you still might not be able to create all the Jetsons' toys, today you can also Build a wireless network Create and set up a weather station Automate your TV and sound system Spy on your pets when you're not home Set up an answering system that knows what to do with calls Increase your home's security If you know how to use Linux and a few basic development tools — Perl, the BASH shell, development libraries, and the GNU C compiler—Linux Smart Homes For Dummies will help you do all these tricks and more. For example, you can Discover the best sources for Linux-based home automation devices Set up a wireless network, create a wireless access point, build a bridge between wired and wireless networks, and route your own network traffic Build a personal video recorder with MythTV that will record to DVD, or set

up a wireless streaming music system Create a smart phone system that takes messages and forwards them to your fax, modem, or answering machine Build a weather station that notifies you of severe weather alerts Control and secure your home automation network, and even check on your house when you're away The bonus CD-ROM includes all kinds of cool open source software for your home automation projects. Linux Smart Homes For Dummies even includes lists of cool gadgets to check out and great ways to automate those boring household chores. A smart home's a happy home!

Green Computing in Smart Cities: Simulation and Techniques

The book collects the latest research and thinking from international experts on green

computing and the smart city. The financial and environmental costs of energy are a concern in smart cities due to the high usage of computing, technology, security, IoT, communications, traffic, and other technologies. This book tackles this problem with a focus on computing, reporting on various approaches being taken worldwide, illustrated by several international case studies demonstrating these approaches. Researchers use this book as an up-to-date reference and engineers use it as a guide for the design and implementation of real solutions.

**INTERNATIONAL
CONFERENCE ON
ADVANCES IN
BUSINESS**

MANAGEMENT AND INTELLIGENCE SYSTEM-22

This book gathers selected papers presented at the International Conference on Deep Learning, Computing and Intelligence (ICDCI 2021), organized by Department of Information Technology, SRM Institute of Science and Technology, Chennai, India, during January 7-8, 2021. The conference is sponsored by Scheme for Promotion of Academic and Research Collaboration (SPARC) in association with University of California, UC Davis and SRM Institute of Science and Technology. The book presents original research in the field of deep learning algorithms and medical imaging systems, focusing to address issues and developments in recent approaches, algorithms, mechanisms, and developments

in medical imaging.

Proceedings of International Conference on Deep Learning, Computing and Intelligence

Relatively new research fields such as ambient intelligence, intelligent environments, ubiquitous computing, and wearable devices have emerged in recent years. These fields are related by a common theme: making use of novel technologies to enhance user experience by providing user-centric intelligent environments, - moving computers from the desktop and making computing available anywhere and anytime. It must be said that the concept of intelligent environments is not new and began with home automation. The choice of name for the field varies

essomewhat from continent to continent in the English-speaking world. In general intelligent space is synonymous to intelligent environments or smart spaces of which smart homes is a sub?eld. In this collection, the terms intelligent environments and ambient intelligence are used interchangeably throughout. Such environments are made possible by permeating living spaces with intelligent technology that enhances quality of life. In particular, advances in technologies such as miniaturized sensors, advances in communication and networking technology including high-bandwidth wireless devices and the reduction in power consumption have made possible the concept of intelligent environments. Environments such as a home, an of?ce, a shopping mall, and a travel port utilize data provided by users to adapt the

environment to meet the user's needs and improve human-machine interactions. The user information is gathered either via wearable devices or by pervasive sensors or a combination of both. Intelligent environments brings together a number of research fields from computer science, such as artificial intelligence, computer vision, machine learning, and robotics as well as engineering and architecture.

Intelligent Environments

This two-volume set LNICST 286-287 constitutes the post-conference proceedings of the First EAI International Conference on Artificial Intelligence for Communications and Networks, AICON 2019, held in Harbin, China, in May 2019. The 93 full papers were carefully reviewed

and selected from 152 submissions. The papers are organized in topical sections on artificial intelligence, mobile network, deep learning, machine learning, wireless communication, cognitive radio, internet of things, big data, communication system, pattern recognition, channel model, beamforming, signal processing, 5G, mobile management, resource management, wireless position.

Artificial Intelligence for Communications and Networks

This two-volume set (CCIS 267 and CCIS 268) constitutes the refereed proceedings of the International Conference on Information and Business Intelligence, IBI 2011, held in Chongqing, China, in December 2011. The 229 full papers presented were carefully

reviewed and selected from 745 submissions. The papers address topics such as communication systems; accounting and agribusiness; information education and educational technology; manufacturing engineering; multimedia convergence; security and trust computing; business teaching and education; international business and marketing; economics and finance; and control systems and digital convergence.

Information and Business Intelligence

This book discusses recent research and applications in intelligent service computing in mobile environments. The authors first explain how advances in artificial intelligence and big data have allowed for an array of

intelligent services with complex and diverse applications. They then show how this brings new opportunities and challenges for service computing. The book, made up of contributions from academic and industry, aims to present advances in intelligent services, new algorithms and techniques in the field, foundational theory and systems, as well as practical real-life applications. Some of the topics discussed include cognition, modeling, description and verification for intelligent services; discovery, recommendation and selection for intelligent services; formal verification, testing and inspection for intelligent services; and composition and cooperation methods for intelligent services.

Intelligent Mobile Service Computing

This book constitutes the refereed proceedings of the 8th International Conference on Ubiquitous Intelligence and Computing, UIC 2010, held in Banff, Canada, September 2011. The 44 papers presented together with two keynote speeches were carefully reviewed and selected from numerous submissions. The papers address all current issues in smart systems and services, smart objects and environments, cloud and services computing, security, privacy and trustworthy, P2P, WSN and ad hoc networks, and ubiquitous intelligent algorithms and applications.

Ubiquitous Intelligence and Computing

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