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Digital Human Modeling CRC Press

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 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.

CSO Intelligent Network Video

The ambitious objectives of future road mobility, i.e. fuel efficiency, reduced emissions, and zero accidents, imply a paradigm shift in the concept of the car regarding its architecture, materials, and propulsion technology, and require an intelligent integration into the systems of transportation and power. ICT, components and smart systems have been essential for a multitude of recent innovations, and are expected to be key enabling technologies for the changes ahead, both inside the vehicle and at its interfaces for the exchange of data and power with the outside world. It has been the objective of the International Forum on Advanced Microsystems for Automotive Applications (AMAA) for almost two decades to detect novel trends and to discuss technological implications and innovation potential from day one on. In 2012, the topic of the AMAA conference is "Smart Systems for Safe, Sustainable and Networked Vehicles". The conference papers selected for this book address current research, developments and innovations in the field of ICT, components and systems and other key enabling technologies leading to the automobile and road transport of the future. The book focuses on application fields such as electrification, power train and vehicle efficiency, safety and driver assistance, networked vehicles, as well as components and systems. Additional information is available at www.amaa.de

[Collaborative Internet of Things \(C-IoT\)](#)

Artech House

Get up to speed with the latest developments in Automotive Ethernet technology and implementation with this fully revised third edition.

Digital Image Processing and Analysis Academic Press

Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it 's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle.

[TDL 2015-2016 Catalogue BoD – Books on Demand](#)

For more than 20 years, Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce.

[Distributed Video Sensor Networks](#) CRC Press

The 8th International Conference on Physical Modelling in Geotechnics (ICPMG2014) was organised by the Centre for Offshore Foundation Systems at the University of Western Australia under the auspices of the Technical Committee 104 for Physical Modelling in Geotechnics of the International Society of Soil Mechanics and Geotechnical Engineering. This quadrennial conference is the traditional focal point for the physical modelling community of academics, scientists and engineers to present and exchange the latest developments on a wide range of physical modelling aspects associated with geotechnical engineering. These proceedings, together with the seven previous proceedings dating from 1988, present an inestimable collection of the technical and scientific developments and breakthroughs established over the last 25 years. These proceedings include 10 keynote lectures from scientific leaders within the physical modelling community and 160 peer-reviewed papers from 26 countries. They are organised in 14 themes, presenting the latest developments in physical modelling technology, modelling techniques and sensors, through a wide range of soil-structure interaction problems, including shallow and deep foundations, offshore geotechnics, dams and embankments, excavations and

retaining structures and slope stability. Fundamental aspects of earthquake engineering, geohazards, ground reinforcements and improvements, and soil properties and behaviour are also covered, demonstrating the increasing complexity of modelling arising from state-of-the-art technological developments and increased understanding of similitude principles. A special theme on education presents the latest developments in the use of physical modelling techniques for instructing undergraduate and postgraduate students in geotechnical engineering.

Network World Springer Nature

Intelligent Network VideoCRC Press

Sensors and Techniques for 3D Object Modeling in

Underwater Environments John Wiley & Sons

FSR, the International Conference on Field and Service Robotics, is a robotics Symposium which has established over the past ten years the latest research and practical results towards the use of field and service robotics in the community with particular focus on proven technology. The first meeting was held in Canberra, Australia, in 1997. Since then the meeting has been held every two years in the pattern Asia, America, Europe. Field robots are non-factory robots, typically mobile, that operate in complex and dynamic environments; on the ground (of earth or planets), under the ground, underwater, in the air or in space. Service robots are those that work closely with humans to help them with their lives. This book presents the results of the ninth edition of Field and Service Robotics, FSR13, held in Brisbane, Australia on 9th-11th December 2013. The conference provided a forum for researchers, professionals and robot manufacturers to exchange up-to-date technical knowledge and experience. This book offers a collection of a broad range of topics including: Underwater Robots and Systems, Unmanned Aerial Vehicles technologies and applications, Agriculture, Space, Search and Rescue and Domestic Robotics, Robotic Vision, Mapping and Recognition.

Human Recognition in Unconstrained Environments

TDL Canada

This book provides a unique picture of the complete 'in-the-wild' biometric recognition processing chain from data acquisition through to detection, segmentation, encoding, and matching reactions against security incidents. Coverage includes: Data hardware architecture fundamentals Background subtraction of humans in outdoor scenes Camera

synchronization Biometric traits: Real-time detection and data segmentation Biometric traits: Feature encoding / matching Fusion at different levels Reaction against security incidents Ethical issues in non-cooperative biometric recognition in public spaces With this book readers will learn how to: Use computer vision, pattern recognition and machine learning methods for biometric recognition in real-world, real-time settings, especially those related to forensics and security Choose the most suited biometric traits and recognition methods for uncontrolled settings Evaluate the performance of a biometric system on real world data Presents a complete picture of the biometric recognition processing chain, ranging from data acquisition to the reaction procedures against security incidents Provides specific requirements and issues behind each typical phase of the development of a robust biometric recognition system Includes a contextualization of the ethical/privacy issues behind the development of a covert recognition system which can be used for forensics and security activities

ICPMG2014 - Physical Modelling in Geotechnics alt concepts The proceeding is a collection of research papers presented, at the 8th International Conference on Robotics, Vision, Signal Processing and Power Applications (ROVISP 2013), by researchers, scientists, engineers, academicians as well as industrial professionals from all around the globe. The topics of interest are as follows but are not limited to:

- Robotics, Control, Mechatronics and Automation
- Vision, Image, and Signal Processing
- Artificial Intelligence and Computer Applications
- Electronic Design and Applications
- Telecommunication Systems and Applications
- Power System and Industrial Applications

Manage Your Smart Home With An App! John Wiley & Sons Large-scale video networks are of increasing importance in a wide range of applications. However, the development of automated techniques for aggregating and interpreting information from multiple video streams in real-life scenarios is a challenging area of research. Collecting the work of leading researchers from a broad range of disciplines, this timely text/reference offers an in-depth survey of the state of the art in distributed camera networks. The book addresses a broad spectrum of critical issues in this highly

interdisciplinary field: current challenges and future directions; video processing and video understanding; simulation, graphics, cognition and video networks; wireless video sensor networks, communications and control; embedded cameras and real-time video analysis; applications of distributed video networks; and educational opportunities and curriculum-development. Topics and features: presents an overview of research in areas of motion analysis, invariants, multiple cameras for detection, object tracking and recognition, and activities in video networks; provides real-world applications of distributed video networks, including force protection, wide area activities, port security, and recognition in night-time environments; describes the challenges in graphics and simulation, covering virtual vision, network security, human activities, cognitive architecture, and displays; examines issues of multimedia networks, registration, control of cameras (in simulations and real networks), localization and bounds on tracking; discusses system aspects of video networks, with chapters on providing testbed environments, data collection on activities, new integrated sensors for airborne sensors, face recognition, and building sentient spaces; investigates educational opportunities and curriculum development from the perspective of computer science and electrical engineering. This unique text will be of great interest to researchers and graduate students of computer vision and pattern recognition, computer graphics and simulation, image processing and embedded systems, and communications, networks and controls. The large number of example applications will also appeal to application engineers.

Network World Springer

Provides information on wireless networking, covering such topics as 802.11 standards, hotspots, and setting up a wireless network.

Computer Aided Systems Theory – EUROCAST 2017 Springer

The business to business trade publication for information and physical Security professionals.

Proceedings etc2014 Springer Nature

This revision of the classic book on CCTV technology, CCTV Surveillance, provides a comprehensive examination of CCTV, covering the applications of various systems, how to design and install a system, and how to choose the right hardware. Taking into account the ever-changing advances in technology using digital techniques and the Internet, CCTV Surveillance, Second Edition, is

completely updated with the recent advancements in digital cameras and digital recorders, remote monitoring via the Internet, and CCTV integration with other security systems. Continuing in the celebrated tradition of the first edition, the second edition is written to serve as a useful resource for the end-user as well as the technical practitioner. Each chapter begins with an overview, and presents the latest information on the relevant equipment, describing the characteristics, features and application of each device. Coverage of aging or obsolete technology is reduced to a historical perspective, and eight brand new chapters cover digital video technology, multiplexers, integrated camera-lens-housing, smart domes, and rapid deployment CCTV systems. Serves as an indispensable resource on CCTV theory Includes eight new chapters on the use of digital components and other related technologies that have seen a recent explosion in use Fully illustrated, the book contains completely updated photographs and diagrams that represent the latest in CCTV technology advancements

CCTV Surveillance Walter de Gruyter

The European Telemetry and Test Conference etc2014 took place in Nuremberg in June 2nd-5th, 2014. Over 50 Technical Papers were presented in 10 Technical Sessions, highlighting the most recent innovations in methods, systems, and instrumentation from industry, researchers and laboratories all around the world. More than 50 companies attended the etc2014 exhibition and offered unique opportunities for technical discussions. Within the etc-Village, they presented numerous innovations, among others around new sensors and data acquisition architectures, Ethernet video solutions, C-band telemetry. This international success has been confirmed by the feedback of the participants: more than 85% were satisfied about the information offered in the Technical Sessions and the etc2014 Exhibition, the organisation and the location of the Conference. Organised for the first time in cooperation with SENSOR + TEST, the internationally leading trade fair for sensors, measuring, and testing technology, the new form of etc2014 opened the door to further 500+ exhibitors; potentially interesting for the daily and future applications of the telemetry professionals.

Take Control of Home Security Cameras Springer

For more than 20 years, Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce.

Field and Service Robotics Que Publishing

This book features selected papers presented at the 5th International Conference on Wireless Communications and Applications (ICWCA 2021), held at Hainan University, China. The book will focus on the presentation of the newest trends and achievements in the development of intelligent algorithms and network technologies in smart communications, with application in underwater communications, IoT-based marine surface communications as well as state-of-the-art real-time precise location technologies, WiFi/Bluetooth locationing, array signal processing and many others.

Network World Springer Science & Business Media

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 MDPI

With the demands of quality management and process control in an industrial environment machine vision is becoming an important issue. This handbook of machine vision is written by experts from leading companies in this field. It goes through all aspects of image acquisition and image processing. From the viewpoint of the industrial application the authors also elucidate in topics like illumination or camera calibration. Attention is paid to all hardware aspects, starting from lenses and camera systems to camera-computer interfaces. Besides the detailed hardware descriptions the necessary software is discussed with equal profoundness. This includes sections on digital image basics as well as image analysis and image processing. Finally the user is introduced to general aspects of industrial applications of

machine vision, such as case studies and strategies for the conception of complete machine vision systems. With this handbook the reader will be enabled not only to understand up to date systems for machine vision but will also be qualified for the planning and evaluation of such technology. Recent Trends in Decision Science and Management Morgan Kaufmann

Building a next generation Home Automation system is not as difficult as you think! This home automation book teaches takes you through a step-by-step process on how to build a system to control your Home Lighting, Thermostats, Window Dressing, IP Cameras, Music, Garden, Kitchen, Fire and Security Alarm on your Smartphone or Tablet device. With this new book, Gerard de-mystifies Smart Homes by using easy-to-understand language this book walks you through the process of setting up your own next generation smart Home automation system. Each chapter includes technical illustrations, examples of how smart homes are helping people and insights from Gerard.