Motion Detection

Thierry Bouwmans, Fatih Porikli, Benjamin Höferlin, Antoine Vacavant

Feature Detectors and Motion Detection in Video Processing Dey, Nilanjan, Ashour, Amira, Patra, Prasenjit Kr., 2016-10-25 Video is one of the most important forms of multimedia available, as it is utilized for security purposes, to transmit information, promote safety, and provide entertainment. As motion is the most integral element in videos, it is important that motion detection systems and algorithms meet specific requirements to achieve accurate detection of real time events. Feature Detectors and Motion Detection in Video Processing explores innovative methods and approaches to analyzing and retrieving video images. Featuring empirical research and significant frameworks regarding feature detectors and descriptor algorithms, the book is a critical reference source for professionals, researchers, advanced-level students, technology developers, and academicians.

Robust Motion Detection in Real-Life Scenarios Ester Martínez-Martín, Ángel P. del Pobil, 2012-07-10 This work proposes a complete sensor-independent visual system that provides robust target motion detection. First, the way sensors obtain images, in terms of resolution distribution and pixel neighbourhood, is studied. This allows a spatial analysis of motion to be carried out. Then, a novel background maintenance approach for robust target motion detection is implemented. Two different situations are considered: a fixed camera observing a constant background where objects are moving; and a still camera observing objects in movement within a dynamic background. This distinction lies on developing a surveillance mechanism without the constraint of observing a scene free of foreground elements for several seconds when a reliable initial background model is obtained, as that situation cannot be guaranteed when a robotic system works in an unknown environment. Other problems are also addressed to successfully deal with changes in illumination, and the distinction between foreground and background elements.

Robust Motion Detection in Real-Life Scenarios Springer, 2012-08-01

Visual Detection of Motion Andrew T. Smith, Robert J. Snowden, 1994 The brain's ability to detect movement within the retinal image is crucial not only for determining the trajectories of moving objects, but also for identifying and interpreting image motion resulting from eye and head movements. This book summarizes our knowledge of how information about image motion is encoded in the brain. Key Features * Valuable reference source for those involved in the rapidly expanding area of motion perception * Strong emphasis on integration of physiological, computation, and psychophysical approaches * Topics include: * Principles of local motion detection * Inputs to local motion detectors * Integration of motion signals * Higher-order interpretation of motion * Motion detection and eye movements

Wide Area Surveillance Vijayan K. Asari,2013-11-19 The book describes a system for visual surveillance using intelligent cameras. The camera uses robust techniques for detecting and tracking moving objects. The real time capture of the objects is then stored in the database. The tracking data stored in the database is analysed to study the camera view, detect and track objects, and study object behavior. These set of models provide a robust framework for coordinating the tracking of objects between overlapping and non-overlapping cameras, and recording the activity of objects detected by the system.

Motion Detection Using a Biologically Based Sensor Zia-ur Rahman, 1986

Video Surveillance Techniques and Technologies Zeljkovic, Vesna, 2013-12-31 This book presents empirical research and acquired experience on the original solutions and mathematical algorithms for motion detection and object identification problems, emphasizing a wide variety of applications of security systems--Provided by publisher.

Motion Tracking and Gesture Recognition Carlos Travieso-Gonzalez,2017-07-12 Nowadays, the technological advances allow developing many applications on different fields. In this book Motion Tracking and Gesture Recognition, two important fields are shown. Motion tracking is observed by a hand-tracking system for surgical training, an approach based on detection of dangerous situation by the prediction of moving objects, an approach based on human motion detection results and preliminary environmental information to build a long-term context model to describe and predict human activities, and a review about multispeaker tracking on different modalities. On the other hand, gesture recognition is shown by a gait recognition approach using Kinect sensor, a study of different methodologies for studying gesture recognition on depth images, and a review about human action recognition and the details about a particular technique based on a sensor of visible range and with depth information.

Motion Detection by Region Matching Pradeepkumar v Annaiyappa, 1987

Motion Adaptation, Its Role in Motion Detection Under Natural Image Conditions and Target Detection ,2005 The contractor shall continue investigation to (1) develop a working model for an elaborated elementary motion detector (EMD) that provides a more robust estimate of local image velocity under natural operating conditions than previous implementations of the Reichardt model and (2) establish a feasible mechanism for producing contrast invariance under real-world conditions that will ultimately provide a blueprint for a robust implementation of an adaptive EMD.

<u>Through-Wall Motion Detection Using GPR</u> Dennis J. Johnson, 2017-01-24 The book describes the product evolution of motion detection using ground penetrating radar (GPR). The three end uses are Search and Rescue (SAR), facility security and police and military operations. Field use of the product during the China and Haiti earthquakes is shown with pictures.

Background Modeling and Foreground Detection for Video Surveillance Thierry Bouwmans, Fath Porikli, Benjamin Höferlin, Antoine Vacavant, 2014-07-25 Background modeling and foreground detection are important steps in video processing used to detect robustly moving objects in challenging environments. This requires effective methods for dealing with dynamic backgrounds and illumination changes as well as algorithms that must meet real-time and low memory requirements. Incorporating both established and new ideas, Background Modeling and Foreground Detection for Video Surveillance provides a complete overview of the concepts, algorithms, and applications related to background modeling and foreground detection. Leaders in the field address a wide range of challenges, including camera jitter and background subtraction. The book presents the top methods and algorithms for detecting moving objects in video surveillance. It covers statistical models, clustering models, neural networks, and fuzzy models. It also addresses sensors, hardware, and implementation issues and discusses the resources and datasets required for evaluating and comparing background subtraction algorithms. The datasets and codes used in the text, along with links to software demonstrations, are available on the book's website. A one-stop resource on up-to-date models, algorithms, implementations, and benchmarking techniques, this book helps researchers and industry developers understand how to apply background models and foreground detection methods to video surveillance and related areas, such as optical motion capture, multimedia applications, teleconferencing, video editing, and human-computer interfaces. It can also be used in graduate courses on computer vision, image processing, real-time architecture, machine learning, or data mining.

Moving Object Detection and Segmentation for Remote Aerial Video Surveillance Teutsch, Michael, 2015-03-11

Motion Detection ,1994

Smart Sensing and Context Gerd Kortuem, Joe Finney, Rodger Lea, Vasughi Sundramoorthy, 2007-10-05 This book constitutes the refereed proceedings of the Second European Conference on

Smart Sensing and Context, EuroSSC 2007, held in Kendal, England, October 2007. The 16 revised full papers and one invited paper were carefully reviewed and selected from over 51 submissions. The papers are organized in topical sections on spatial and motion context, human behavior as context, context frameworks and platforms and sensing technologies and case studies.

Motion Detection in Physical Space an Its Peripheral and Central Representation Werner Graf, 1988

Sensor Networks for Sustainable Development Mohammad Ilyas, Sami S. Alwakeel, Mohammed M. Alwakeel, el-Hadi M. Aggoune, 2017-12-19 Recent advances in technology and manufacturing have made it possible to create small, powerful, energy-efficient, cost-effective sensor nodes for specialized telecommunication applications—nodes smart enough to be capable of adaptation, self-awareness, and self-organization. Sensor Networks for Sustainable Development examines sensor network technologies that increase the quality of human life and encourage societal progress with minimal effect on the earth's natural resources and environment. Organized as a collection of articles authored by leading experts in the field, this valuable reference captures the current state of the art and explores applications where sensor networks are used for sustainable development in: Agriculture Environment Energy Healthcare Transportation Disaster management Beneficial to designers and planners of emerging telecommunication networks, researchers in related industries, and students and academia seeking to learn about the impact of sensor networks on sustainable development, Sensor Networks for Sustainable Development provides scientific tutorials and technical information about smart sensor networks and their use in everything from remote patient monitoring to improving safety on the roadways and beyond.

Computer Analysis of Images and Patterns André Gagalowicz,2005-08-30 This volume presents the proceedings of the 11th International Conference on Computer Analysis of Images and Patterns (CAIP 2005). This conference - ries started about 20 years ago in Berlin. Initially, the conference served as a forum for meetings between scientists from Western and Eastern-block cotries. Nowadays, the conference attracts participants from all over the world. The conference gives equal weight to posters and oral presentations, and the selected presentation mode is based on the most appropriate communication medium. The program follows a single-track format, rather than parallel s- sions. Non-overlapping oral and poster sessions ensure that all attendees have the opportunity to interact personally with presenters. As for the numbers, we received a total of 185 submissions. All papers were reviewed by two to four members of the Program Committee. The ?nal selection was carried out by the Conference Chairs. Out of the 185 papers, 65 were - lected for oral presentation and 43 as posters. CAIP is becoming well recognized internationally, and this year's presentations came from 26 di?erent countries. South Korea proved to be the most active scienti?cally with a total of 16 - cepted papers. At this point, we wish to thank the Program Committee and additional referees for their timely and high-quality reviews. The paper s- mission and review procedure was carried out electronically. We also thank the invited speakers Reinhardt Koch and Thomas Vetter for kindly accepting to present invited papers.

Vision Chips Alireza Moini,2012-12-06 This chapter presents a set of introductory material, which in addition to providing a general view on the topic, highlights the importance of research in this area. It also presents a short history of the design of smart vision sensors, and points out some of the fundamental issues in the design of such sensors. 1. 1 A General Overview Machine vision is one of the main branches of artificial intelligence. The richness of information present in images makes them the first choice as an input to an artificial system which tries to interact with its environment. A large proportion of the brain of many advanced species is dedicated to visual information processing, which illustrates the importance of visual information in biological systems. Biological visual systems have evolved over millions of years, and each specie has developed a specialized visual system tailored for the essential tasks of survival, such as catching a prey, or escaping a predator. Implementing electronic hardware for image processing, therefore, may benefit from the underlying fundamental aspects of biological vision, though in no respect should this be regarded as a solid framework for electronic vision systems. Traditionally, computer vision algorithms are performed on images captured by conventional cameras, and processing is accomplished by means of general purpose digital computers. More advanced systems utilize dedicated hardware to speed up the processing stage.

Visual Mechanisms of Motion Detection Paul Andrew Goddard, University of Newcastle upon Tyne. Department of Physiological Sciences, 1997

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