

MOTION
ANALYSIS
AND IMAGE
SEQUENCE
PROCESSING

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Motion Analysis And Image Sequence Processing

Clifford Lane



Motion Analysis And Image Sequence Processing:

Motion Analysis and Image Sequence Processing M. Ibrahim Sezan,Reginald L. Lagendijk,2012-09-27 An image or video sequence is a series of two dimensional 2 D images sequen tially ordered in time Image sequences can be acquired for instance by video motion picture X ray or acoustic cameras or they can be synthetically gen erated by sequentially ordering 2 D still images as in computer graphics and animation The use of image sequences in areas such as entertainment visual communications multimedia education medicine surveillance remote control and scientific research is constantly growing as the use of television and video systems are becoming more and more common The boosted interest in digital video for both consumer and professional products along with the availability of fast processors and memory at reasonable costs has been a major driving force behind this growth Before we elaborate on the two major terms that appear in the title of this book namely motion analysis and image sequence processing we like to place them in their proper contexts within the range of possible operations that involve image sequences In this book we choose to classify these operations into three major categories namely i image sequence processing ii image sequence analysis and iii visualization The interrelationship among these three categories is pictorially described in Figure 1 below in the form of an image sequence triangle Image Sequence Processing and Dynamic Scene Analysis T. S. Huang,2012-12-06 This volume contains the proceedings of the NATO Advanced Study Institute on Image Sequence Processing and Dynamic Scene Analysis held 21 June 2 July 1982 in Hotel Maritim Braunlage Harz Federal Republic of Germany The organizing eommittee of the institute consists of T S Huang Director H G Musmann Co Director H H Nagel Consultant and C E Liedtke and W Geuen Local arrangement This Institute was devoted to the rapidly emerging field of image sequence processing and dynamic scene analysis which has man important applications in cluding target tracking television bandwidth compression highway traffic moni toring and analysis of heart wall motion for medical diagnosis The lectures and discussions in this Institute fell into three overlapping categories Motion estimation pattern recognition and artificial intelligence techniques in dynamic scene analysis and applications 1 Motion estimation One of the most important problems in image sequence analysis and dynamic scene analysis is displacement and motion estimation For example in interframe coding using temporal DPCM displacement estimation and compensation can improve efficiency significantly Also estimated motion parameters can be powerful cues in target segmentation detection and classification In this Institute a number of recently developed techniques for displacement and motion estimation were discussed *The Essential Guide to Video Processing* Alan C. Bovik,2009-07-07 This comprehensive and state of the art approach to video processing gives engineers and students a comprehensive introduction and includes full coverage of key applications wireless video video networks video indexing and retrieval and use of video in speech processing Containing all the essential methods in video processing alongside the latest standards it is a complete resource for the professional engineer researcher and graduate student Numerous conceptual and numerical examples All the latest

standards are thoroughly covered MPEG 1 MPEG 2 MPEG 4 H 264 and AVC Coverage of the latest techniques in video security Like its sister volume The Essential Guide to Image Processing Professor Bovik s Essential Guide to Video Processing provides a timely and comprehensive survey with contributions from leading researchers in the area Highly recommended for everyone with an interest in this fascinating and fast moving field Prof Bernd Girod Stanford University USA Edited by a leading person in the field who created the IEEE International Conference on Image Processing with contributions from experts in their fields Numerous conceptual and numerical examples All the latest standards are thoroughly covered MPEG 1 MPEG 2 MPEG 4 H 264 and AVC Coverage of the latest techniques in video security Image Sequence Analysis T. S. Huang,2013-11-11 The processing of image sequences has a broad spectrum of important applications including target tracking robot navigation bandwidth compression of TV conferencing video signals studying the motion of biological cells using microcinematography cloud tracking and highway traffic monitoring Image sequence processing involves a large amount of data However because of the progress in computer LSI and VLSI technologies we have now reached a stage when many useful processing tasks can be done in a reasonable amount of time As a result research and development activities in image sequence analysis have recently been growing at a rapid pace An IEEE Computer Society Workshop on Computer Analysis of Time Varying Imagery was held in Philadelphia April 5 6 1979 A related special issue of the IEEE Transactions on Pattern Analysis and Machine Intelligence was published in November 1980 The IEEE Computer magazine has also published a special issue on the subject in 1981 The purpose of this book is to survey the field of image sequence analysis and to discuss in depth a number of important selected topics The seven chapters fall into two categories Chapters 2 3 and 7 are comprehensive surveys on respectively the whole field of image sequence analysis efficient coding of image sequences and the processing of medical image sequences In Chapters 1 4 5 and 6 the authors present mainly results of their own research on respectively motion estimation noise reduction in image sequences moving object extraction and occlusion

Digital Image Sequence Processing, Compression, and Analysis Todd R. Reed,2004-07-27 Digital image sequences including digital video are increasingly common and important components in technical applications ranging from medical imaging and multimedia communications to autonomous vehicle navigation The immense popularity of DVD video and the introduction of digital television make digital video ubiquitous in the consumer domain Digital Image Sequence Processing Compression and Analysis provides an overview of the current state of the field as analyzed by leading researchers An invaluable resource for planning and conducting research in this area the book conveys a unified view of potential directions for further industrial development It offers an in depth treatment of the latest perspectives on processing compression and analysis of digital image sequences Research involving digital image sequences remains extremely active The advent of economical sequence acquisition storage and display devices together with the availability of computing power opens new areas of opportunity This volume delivers the background necessary to understand the strengths and weaknesses of current

techniques and the directions that consumer and technical applications may take over the coming decade

Image Sequence Processing and Dynamic Scene Analysis T S Huang,1983-05-01

Motion Analysis for Image Sequence Coding G. Tziritas,C. Labit,1994 This volume is the fourth in the book series Advances in Image Communication a series dedicated to exploring the rapidly evolving multidisciplinary field of image communications Each publication stands alone as a state of the art reference work in its particular area of expertise It also forms an integral part of the comprehensive overview of developments across the field which the series offers as a whole Motion Analysis for Image Sequence Coding documents the technical advances made through the years in dealing with motion in image sequences from straightforward coarse approaches to complicated algorithms It is timely because of the unprecedented effort which is made to establish a set of international standards for the digital compression of moving pictures and television signals These standards rely heavily on motion estimation and compensation techniques and will be exploited on a large scale in multimedia applications as well as in intelligent systems The book will be of prime importance not only to active engineers and researchers in the field but also by serving as a basic educational tool

Image and Video Compression for Multimedia Engineering Yun-Qing Shi,Huifang Sun,2017-12-19 Multimedia hardware still cannot accommodate the demand for large amounts of visual data Without the generation of high quality video bitstreams limited hardware capabilities will continue to stifle the advancement of multimedia technologies Thorough grounding in coding is needed so that applications such as MPEG 4 and JPEG 2000 may come to fruition Image and Video Compression for Multimedia Engineering provides a solid comprehensive understanding of the fundamentals and algorithms that lead to the creation of new methods for generating high quality video bit streams The authors present a number of relevant advances along with international standards New to the Second Edition A chapter describing the recently developed video coding standard MPEG Part 10 Advances Video Coding also known as H 264 Fundamental concepts and algorithms of JPEG2000 Color systems of digital video Up to date video coding standards and profiles Visual data image and video coding will continue to enable the creation of advanced hardware suitable to the demands of new applications Covering both image and video compression this book yields a unique self contained reference for practitioners to build a basis for future study research and development

Visual Communications and Image Processing ,1997

Computer Vision Analysis of Image Motion by Variational Methods Amar Mitiche,J.K. Aggarwal,2013-09-05 This book presents a unified view of image motion analysis under the variational framework Variational methods rooted in physics and mechanics but appearing in many other domains such as statistics control and computer vision address a problem from an optimization standpoint i e they formulate it as the optimization of an objective function or functional The methods of image motion analysis described in this book use the calculus of variations to minimize or maximize an objective functional which transcribes all of the constraints that characterize the desired motion variables The book addresses the four core subjects of motion analysis Motion estimation detection tracking and three dimensional

interpretation Each topic is covered in a dedicated chapter The presentation is prefaced by an introductory chapter which discusses the purpose of motion analysis Further a chapter is included which gives the basic tools and formulae related to curvature Euler Lagrange equations unconstrained descent optimization and level sets that the variational image motion processing methods use repeatedly in the book **Visual Communications and Image Processing '95** Lance T. Wu,1995

Image and Video Communications and Processing 2000 Bhaskaran Vasudev,2000 *1998 International Conference on Image Processing : Proceedings* ,1998 **Visual Communications and Image Processing '92** ,1992

Pattern Recognition Bernd Michaelis, Gerard Krell,2003-09-09 This book constitutes the refereed proceedings of the 25th Symposium of the German Association for Pattern Recognition DAGM 2003 held in Magdeburg Germany in September 2003 The 74 revised papers presented were carefully reviewed and selected from more than 140 submissions The papers address all current issues in pattern recognition and are organized in sections on image analyses callibration and 3D shape recognition motion biomedical applications and applications **Applications of Digital Image Processing** ,1998

Bayesian Inference for Inverse Problems Ali Mohammad-Djafari,1998 *Optical Engineering* ,1998 Publishes papers reporting on research and development in optical science and engineering and the practical applications of known optical science engineering and technology **Multimedia '99** N. Correia,T. Chambel,G. Davenport,2000 Multimedia 99 covers technological and scientific areas of media production processing and delivery 24 contributions from research laboratories and universities worldwide give a broad perspective on multimedia research with a special focus on media convergence The topics treated in this volume image and sound content analysis and processing paradigms and metaphors for multimedia authoring and display applications such as education or entertainment and multimedia content authentication and security **On a Motion Analysis Process for Image Sequences from Real World Scenes** R. Jain,Hans-Hellmut Nagel,1978

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