

Miles Hansard · Seungkyu Lee
Ouk Choi · Radu Horaud

Time-of-Flight Cameras

Principles, Methods
and Applications

Time Of Flight Cameras Principles Methods And Applications Springerbriefs In Computer Science

Andrzej Dziech, Andrzej Czyzewski



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Time-of-Flight Cameras Miles Hansard, Seungkyu Lee, Ouk Choi, Radu Patrice Horaud, 2012-11-06 Time of flight TOF cameras provide a depth value at each pixel from which the 3D structure of the scene can be estimated. This new type of active sensor makes it possible to go beyond traditional 2D image processing directly to depth based and 3D scene processing. Many computer vision and graphics applications can benefit from TOF data including 3D reconstruction, activity and gesture recognition, motion capture and face detection. It is already possible to use multiple TOF cameras in order to increase the scene coverage and to combine the depth data with images from several colour cameras. Mixed TOF and colour systems can be used for computational photography including full 3D scene modelling as well as for illumination and depth of field manipulations. This work is a technical introduction to TOF sensors from architectural and design issues to selected image processing and computer vision methods.

Time-of-Flight and Depth Imaging. Sensors, Algorithms and Applications Marcin Grzegorzek, Christian Theobalt, Reinhard Koch, Andreas Kolb, 2013-11-09 Cameras for 3D depth imaging using either time of flight ToF or structured light sensors have received a lot of attention recently and have been improved considerably over the last few years. The present techniques make full range 3D data available at video frame rates and thus pave the way for a much broader application of 3D vision systems. A series of workshops have closely followed the developments within ToF imaging over the years. Today depth imaging workshops can be found at every major computer vision conference. The papers presented in this volume stem from a seminar on Time of Flight Imaging held at Schloss Dagstuhl in October 2012. They cover all aspects of ToF depth imaging from sensors and basic foundations to algorithms for low level processing to important applications that exploit depth imaging. In addition, this book contains the proceedings of a workshop on Imaging New Modalities which was held at the German Conference on Pattern Recognition in Saarbrücken, Germany, in September 2013. A state of the art report on the Kinect sensor and its applications is followed by two reports on local and global ToF motion compensation and a novel depth capture system using a plenoptic multi lens multi focus camera sensor.

Handbook of Machine and Computer Vision Alexander Hornberg, 2017-03-06 The second edition of this accepted reference work has been updated to reflect the rapid developments in the field and now covers both 2D and 3D imaging. Written by expert practitioners from leading companies operating in machine vision, this one stop handbook guides readers through all aspects of image acquisition and image processing including optics, electronics and software. The authors approach the subject in terms of industrial applications, elucidating such topics as illumination and camera calibration. Initial chapters concentrate on the latest hardware aspects ranging from lenses and camera systems to camera computer interfaces, with the software necessary discussed to an equal depth in later sections. These include digital image basics as well as image analysis and image processing. The book concludes with extended coverage of industrial applications in optics and electronics, backed by case studies and design strategies for the conception of complete machine vision systems. As a result, readers are

not only able to understand the latest systems but also to plan and evaluate this technology With more than 500 images and tables to illustrate relevant principles and steps

Computer Vision - ECCV 2016 Bastian Leibe, Jiri Matas, Nicu Sebe, Max Welling, 2016-09-15 The eight volume set comprising LNCS volumes 9905-9912 constitutes the refereed proceedings of the 14th European Conference on Computer Vision ECCV 2016 held in Amsterdam The Netherlands in October 2016 The 415 revised papers presented were carefully reviewed and selected from 1480 submissions The papers cover all aspects of computer vision and pattern recognition such as 3D computer vision computational photography sensing and display face and gesture low level vision and image processing motion and tracking optimization methods physics based vision photometry and shape from X recognition detection categorization indexing matching segmentation grouping and shape representation statistical methods and learning video events activities and surveillance applications They are organized in topical sections on detection recognition and retrieval scene understanding optimization image and video processing learning action activity and tracking 3D and 9 poster sessions

Multimedia Communications, Services and Security Andrzej Dziech, Andrzej Czyzewski, 2013-05-16 This volume constitutes the refereed proceedings of the 6th International Conference on Multimedia Communications Services and Security MCSS 2013 held in Krakow Poland in June 2013 The 27 full papers included in the volume were selected from numerous submissions The papers cover various topics related to multimedia technology and its application to public safety problems

Compressive Sensing for the Photonic Mixer Device Miguel Heredia Conde, 2017-04-18 Miguel Heredia Conde aims at finding novel ways to fit the valuable mathematical results of the Compressive Sensing CS theory to the specific case of the Photonic Mixer Device PMD To this end methods are presented that take profit of the sparsity of the signals gathered by PMD sensors In his research the author reveals that CS enables outstanding tradeoffs between sensing effort and depth error reduction or resolution enhancement

Design of Clothing Manufacturing Processes Jelka Geršak, 2022-02-08 This second edition of Design of Clothing Manufacturing Processes comprehensively addresses the design and planning of clothing manufacturing processes beginning with the classification of clothing and discussion of its market clothing sizing systems and the key issues involved in developing a fashion collection Special emphasis is placed on production planning and control with detailed coverage of the processes of design pattern making and cutting joining techniques work analysis clothing manufacturing planning and the behaviour performance and quality of materials critical to the development planning and control of manufacturing processes and the sale of garments With its descriptions of the rapid integrated and flexible manufacturing systems of today driven by demand information this book explains how new supply chain models and manufacturing processes can lead to a much quicker route from design to distribution This new edition is updated with important new research and topics including digital fashion incorporating scientific aspects of fabric modelling simulation and digital fitting and the performance of seams as an important criterion for the quality and appearance of clothing Considers in detail the design of clothing classification and sizing systems

Comprehensively presents the requirements of digital fashion the terminology used for virtual garment fabric modelling for virtual clothing simulation and digital fitting Covers the production planning in all aspects of clothing production from design and pattern making to manufacture Provides a thorough review and description of quality requirements for clothing materials Looks in detail at the performance of stitched seams from the theoretical basis for determining seam strength and the parameters that affect seam strength to the phenomenon of seam pucker

Biologically Inspired Techniques in Many Criteria Decision-Making Satchidananda Dehuri, Sujata Dash, Ruppa K. Thulasiram, Rohen H. Singh, Margarita Favorskaya, 2025-03-14 This book includes selected high quality research papers presented at 3rd International Conference on Biologically Inspired Techniques in Many Criteria Decision Making BITMDM 2024 organized by School of Engineering and Technology Nagaland University Dimapur India on 6th and 7th December 2024 This book presents the recent advances in techniques which are biologically inspired and their usage in the field of single and many criteria decision making Further the topics covered in this book are divided into different sections like i healthcare and biomedical applications ii security fraud detection and cybersecurity iii intelligent systems and decision support iv agriculture and environment v image processing and multi media analysis and vi emerging technologies and applications

Image Statistics in Visual Computing Tania Pouli, Erik Reinhard, Douglas W. Cunningham, 2013-12-13 To achieve the complex task of interpreting what we see our brains rely on statistical regularities and patterns in visual data Knowledge of these regularities can also be considerably useful in visual computing disciplines such as computer vision computer graphics and image processing The field of natural image statistics studies the regularities to exploit their potential and better understand human vision With numerous color figures throughout *Image Statistics in Visual Computing* covers all aspects of natural image statistics from data collection to analysis to applications in computer graphics computational photography image processing and art The authors keep the material accessible providing mathematical definitions where appropriate to help readers understand the transforms that highlight statistical regularities present in images The book also describes patterns that arise once the images are transformed and gives examples of applications that have successfully used statistical regularities Numerous references enable readers to easily look up more information about a specific concept or application A supporting website also offers additional information including descriptions of various image databases suitable for statistics Collecting state of the art interdisciplinary knowledge in one source this book explores the relation of natural image statistics to human vision and shows how natural image statistics can be applied to visual computing It encourages readers in both academic and industrial settings to develop novel insights and applications in all disciplines that relate to visual computing

Sensortechnik Hans-Rolf Tränkler, Leonhard M. Reindl, 2015-01-13 Dieses Handbuch ermöglicht dem Sensoranwender schnellen Zugriff auf komprimiertes fundiertes und aktuelles Fachwissen Daher stellt es für die moderne Messtechnik eine zentrale Informationsquelle dar Die Strukturierung des Werks richtet sich nach den Bedürfnissen des Benutzers und folgt der zu

messenden Größe. Erst danach wird weiter in die verschiedenen Sensortypen gegliedert. Die 2. Auflage liegt nun in grundlich bearbeiteter und aktualisierter Form vor. Neu aufgenommen wurden Kapitel über Messunsicherheit bei Sensoren, Zuverlässigkeit von Sensoren, Informationsfusion für multisensorielle Systeme, Umfeldwahrnehmung, funkauslesbare Sensoren und Detektoren in der Brand Meldetechnik.

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