

Miles Hansard - Seungkyu Lee  
Ouk Choi - Radu Horaud

# Time-of-Flight Cameras

Principles, Methods  
and Applications

# Time Of Flight Cameras Springerbriefs In Computer Science

**Carlo Dal Mutto, Pietro  
Zanuttigh, Guido M Cortelazzo**



## **Time Of Flight Cameras Springerbriefs In Computer Science:**

**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 A Survey on 3D Cameras: Metrological Comparison of Time-of-Flight, Structured-Light and Active Stereoscopy Technologies Silvio Giancola,Matteo Valenti,Remo Sala,2018-06-19 This book is a valuable resource to deeply understand the technology used in 3D cameras In this book the authors summarize and compare the specifications of the main 3D cameras available in the mass market The authors present a deep metrological analysis of the main camera based on the three main technologies Time of Flight Structured Light and Active Stereoscopy and provide qualitative results for any user to understand the underlying technology within 3D camera as well as practical guidance on how to get the most of them for a given application

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

**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

*Time-of-Flight Cameras and Microsoft Kinect™* Carlo Dal Mutto, Pietro Zanuttigh, Guido M Cortelazzo, 2012-03-27 Time of Flight Cameras and Microsoft Kinect™ closely examines the technology and general characteristics of time of flight range cameras and outlines the best methods for maximizing the data captured by these devices This book also analyzes the calibration issues that some end users may face when using these type of cameras for research and suggests methods for improving the real time 3D reconstruction of dynamic and static scenes Time of Flight Cameras and Microsoft Kinect™ is intended for researchers and advanced level students as a reference guide for time of flight cameras Practitioners working in a related field will also find the book valuable

**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

*Advances in Computational Intelligence Systems* Thomas Jansen, Richard Jensen, Neil Mac Parthaláin, Chih-Min Lin, 2021-11-17 This book contains the papers presented at the 20th UK Workshop on Computational Intelligence UKCI 2021 held virtually by Aberystwyth University 8 10th September 2021 This marks the 20th anniversary of UKCI a testament to the increasing role and importance of Computational Intelligence CI and the continuing interest in its development UKCI provides a forum for the academic community and industry to share ideas and experience in this field EDMA 2021 the 4th International Engineering Data and Model Driven Applications workshop is also incorporated and held in conjunction with UKCI 2021 Paper submissions were invited in the areas of fuzzy systems neural networks evolutionary computation machine learning data mining cognitive computing intelligent robotics hybrid methods deep learning and applications of CI

**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

**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

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