

Miles Hansard - Seungkyu Lee  
Ouk Choi - Radu Horaud

# Time-of-Flight Cameras

Principles, Methods  
and Applications

# Time Of Flight Cameras Springerbriefs In Computer Science

**Pietro Zanuttigh, Giulio Marin, Carlo Dal Mutto, Fabio Dominio, Ludovico Minto, Guido Maria 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,2016-09-16 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.

**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.

**Time-of-Flight and Structured Light Depth Cameras** Pietro Zanuttigh, Giulio Marin, Carlo Dal Mutto, Fabio Dominio, Ludovico Minto, Guido Maria Cortelazzo, 2018-05-30. This book provides a comprehensive overview of the key technologies and applications related to new cameras that have brought 3D data acquisition to the mass market. It covers both the theoretical principles behind the acquisition devices and the practical implementation aspects of the computer vision algorithms needed for the various applications. Real data examples are used in order to show the performances of the various algorithms. The performance and limitations of the depth camera technology are explored along with an extensive review of the most effective methods for addressing challenges in common applications. Applications covered in specific detail include scene segmentation, 3D scene reconstruction, human pose estimation and tracking, and gesture recognition. This book offers students, practitioners and researchers the tools necessary to explore the potential uses of depth data in light of the expanding number of devices available for sale. It explores the impact of these devices on the rapidly growing field of depth based computer vision.

**Time-of-flight Cameras for Intra-operative Image Acquisition** Sven Mersmann, 2013. **Optical Synchronization of Time-of-Flight Cameras** Felix Wermke, 2023\*. Englische Version. Time of Flight ToF cameras produce depth images, three dimensional images by measuring the time between the emission of infrared light and the reception of its reflection. A setup of multiple ToF cameras may be used to overcome their comparatively low resolution, increase the field of view and reduce occlusion. However, the simultaneous operation of multiple ToF cameras introduces the possibility of interference, resulting in erroneous depth measurements. The problem of interference is not only related to a collaborative multicamera setup but also to multiple ToF cameras operating independently. In this work a new optical synchronization for ToF cameras is presented.

requiring no additional hardware or infrastructure to utilize a time division multiple access TDMA scheme to mitigate interference. It effectively enables a camera to sense the acquisition process of other ToF cameras and rapidly synchronizes its acquisition times to operate without interference. Instead of requiring cables to synchronize only the existing hardware is utilized to enable an optical synchronization. To achieve this the camera's firmware is extended with the synchronization procedure. The optical synchronization has been conceptualized, implemented and verified with an experimental setup deploying three ToF cameras. The measurements show the efficacy of the proposed optical synchronization. During the experiments the frame rate was reduced by only about 1% due to the synchronization procedure.

### **Using Time-of-Flight**

**Camera for Motion Detection and People Counting** ,2010    **Time-of-flight Cameras** Dario Piatti,2010    *Shape Registration and Comparison Using 3D Time-of-Flight Cameras* Roy Flerackers,2016    *Time-of-flight Imaging of Indoor Scenes with Scattering Compensation* , 3D time of flight cameras may suffer from false depth readings caused by light scattering. In order to reduce such scattering artifacts a scattering compensation procedure is proposed. Assuming a space invariant point spread function as a model for the scattering leads to a solution in a form of a deconvolution scheme. The improvement brought by scattering compensation as well as the computational cost involved are further discussed in this paper.

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