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Variation Based Dense 3D Reconstruction

Application on Monocular
Mini-Laparoscopic Sequences



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Vladislav Golyanik



Variation Based Dense 3d Reconstruction Application On Monocular Mini Laparoscopic Sequences Bestmasters:

Variation Based Dense 3D Reconstruction Sven Painer,2016-03-08 In his master thesis Sven Painer develops implements and evaluates a method to reconstruct the liver surface from monocular mini laparoscopic sequences The principal focus of his research is to create a basis for helping clinicians to write reports with quantitative descriptions of the liver surface A Structure from Motion approach is performed to do a sparse reconstruction of the liver surface and subsequently this information is used in a variation based dense 3D reconstruction The algorithms are formulated in a causal way enabling the implementation to be run in real time on an adequate hardware platform The results show a significant performance increase and pave the way to give clinicians a feedback during video capturing to improve the quality of the reconstruction in the near future

Robust Methods for Dense Monocular Non-Rigid 3D Reconstruction and Alignment of Point Clouds Vladislav Golyanik,2020-06-04 Vladislav Golyanik proposes several new methods for dense non rigid structure from motion NRSfM as well as alignment of point clouds The introduced methods improve the state of the art in various aspects i e in the ability to handle inaccurate point tracks and 3D data with contaminations NRSfM with shape priors obtained on the fly from several unoccluded frames of the sequence and the new gravitational class of methods for point set alignment represent the primary contributions of this book About the Author Vladislav Golyanik is currently a postdoctoral researcher at the Max Planck Institute for Informatics in Saarbrücken Germany The current focus of his research lies on 3D reconstruction and analysis of general deformable scenes 3D reconstruction of human body and matching problems on point sets and graphs He is interested in machine learning both supervised and unsupervised physics based methods as well as new hardware and sensors for computer vision and graphics e g quantum computers and event cameras

State of the Art in Dense Monocular Non-rigid 3D Reconstruction ,2023 Abstract 3D reconstruction of deformable or non rigid scenes from a set of monocular 2D image observations is a long standing and actively researched area of computer vision and graphics It is an ill posed inverse problem since without additional prior assumptions it permits infinitely many solutions leading to accurate projection to the input 2D images Non rigid reconstruction is a foundational building block for downstream applications like robotics AR VR or visual content creation The key advantage of using monocular cameras is their omnipresence and availability to the end users as well as their ease of use compared to more sophisticated camera set ups such as stereo or multi view systems This survey focuses on state of the art methods for dense non rigid 3D reconstruction of various deformable objects and composite scenes from monocular videos or sets of monocular views It reviews the fundamentals of 3D reconstruction and deformation modeling from 2D image observations We then start from general methods that handle arbitrary scenes and make only a few prior assumptions and proceed towards techniques making stronger assumptions about the observed objects and types of deformations e g human faces bodies hands and animals A significant part of this STAR is also devoted to classification and a high level comparison of the methods as well as

an overview of the datasets for training and evaluation of the discussed techniques We conclude by discussing open challenges in the field and the social aspects associated with the usage of the reviewed methods

Deformable Surface 3D Reconstruction from Monocular Images Mathieu Salzmann,Pascal Fua,2022-05-31 Being able to recover the shape of 3D deformable surfaces from a single video stream would make it possible to field reconstruction systems that run on widely available hardware without requiring specialized devices However because many different 3D shapes can have virtually the same projection such monocular shape recovery is inherently ambiguous In this survey we will review the two main classes of techniques that have proved most effective so far The template based methods that rely on establishing correspondences with a reference image in which the shape is already known and non rigid structure from motion techniques that exploit points tracked across the sequences to reconstruct a completely unknown shape In both cases we will formalize the approach discuss its inherent ambiguities and present the practical solutions that have been proposed to resolve them To conclude we will suggest directions for future research Table of Contents Introduction Early Approaches to Non Rigid Reconstruction Formalizing Template Based Reconstruction Performing Template Based Reconstruction Formalizing Non Rigid Structure from Motion Performing Non Rigid Structure from Motion Future Directions *Camera-Agnostic Monocular SLAM and Semi-Dense 3D Reconstruction* Martin Rünz,2015

Deformable and Articulated 3D Reconstruction from Monocular Video Sequences Marco Paladini,2012 This thesis addresses the problem of deformable and articulated structure from motion from monocular uncalibrated video sequences Structure from motion is defined as the problem of recovering information about the 3D structure of scenes imaged by a camera in a video sequence Our study aims at the challenging problem of non rigid shapes e g a beating heart or a smiling face Non rigid structures appear constantly in our everyday life think of a bicep curling a torso twisting or a smiling face Our research seeks a general method to perform 3D shape recovery purely from data without having to rely on a pre computed model or training data Open problems in the field are the difficulty of the non linear estimation the lack of a real time system large amounts of missing data in real world video sequences measurement noise and strong deformations Solving these problems would take us far beyond the current state of the art in non rigid structure from motion This dissertation presents our contributions in the field of non rigid structure from motion detailing a novel algorithm that enforces the exact metric structure of the problem at each step of the minimisation by projecting the motion matrices onto the correct deformable or articulated metric motion manifolds respectively An important advantage of this new algorithm is its ability to handle missing data which becomes crucial when dealing with real video sequences We present a generic bilinear estimation framework which improves convergence and makes use of the manifold constraints Finally we demonstrate a sequential frame by frame estimation algorithm which provides a 3D model and camera parameters for each video frame while simultaneously building a model of object deformations

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