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Monocular Model-Based 3D Tracking of Rigid Objects

Vincent Lepetit and Pascal Fua



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Management Association, Information Resources

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Monocular Model-based 3D Tracking of Rigid Objects Vincent Lepetit, Pascal Fua, 2005 Monocular Model Based 3D Tracking of Rigid Objects reviews the different techniques and approaches that have been developed by industry and Model-based Visual Tracking Giorgio Panin, 2011-04-12 This book has two main goals to provide a unifed and research structured overview of this growing field as well as to propose a corresponding software framework the OpenTL library developed by the author and his working group at TUM Informatik The main objective of this work is to show how most real world application scenarios can be naturally cast into a common description vocabulary and therefore implemented and tested in a fully modular and scalable way through the defnition of a layered object oriented software architecture The resulting architecture covers in a seamless way all processing levels from raw data acquisition up to model based object detection and sequential localization and defines at the application level what we call the tracking pipeline Within this framework extensive use of graphics hardware GPU computing as well as distributed processing allows real time performances for complex models and sensory systems Computer Vision -- ECCV 2006 Aleš Leonardis, Horst Bischof, Axel Pinz, 2006-07-25 The four volume set comprising LNCS volumes 3951 3952 3953 3954 constitutes the refereed proceedings of the 9th European Conference on Computer Vision ECCV 2006 held in Graz Austria in May 2006 The 192 revised papers presented were carefully reviewed and selected from a total of 811 papers submitted. The four books cover the entire range of current issues in computer vision The papers are organized in topical sections on recognition statistical models and visual learning 3D reconstruction and multi-view geometry energy minimization tracking and motion segmentation shape from X visual tracking face detection and recognition illumination and reflectance modeling and low level vision segmentation and Augmented Reality Soha Maad, 2010-01-01 Virtual Reality VR and Augmented Reality AR tools and techniques grouping supply virtual environments that have key characteristics in common with our physical environment Viewing and interacting with 3D objects is closer to reality than abstract mathematical and 2D approaches Augmented Reality AR technology a more expansive form of VR is emerging as a cutting edge technology that integrates images of virtual objects into a real world In that respect Virtual and Augmented reality can potentially serve two objectives reflecting realism through a closer correspondence with real experience and extending the power of computer based technology to better reflect abstract experience With the growing amount of digital data that can be stored and accessed there is a rising need to harness this data and transform it into an engine capable of developing our view and perception of the world and of boosting the economic activity across domain verticals Graphs pie charts and spreadsheet are not anymore the unique medium to convey the world Advanced interactive patterns of visualization and representations are emerging as a viable alternative with the latest advances in emerging technologies such as AR and VR And the potential and rewards are tremendous This book discusses the opportunities and challenges facing the development of this technology **Intelligent Video Event Analysis**

and Understanding Jianguo Zhang, Ling Shao, Lei Zhang, Graeme A. Jones, 2011-01-19 With the vast development of Internet capacity and speed as well as wide adoption of media technologies in people's daily life a large amount of videos have been surging and need to be efficiently processed or organized based on interest The human visual perception system could without difficulty interpret and r ognize thousands of events in videos despite high level of video object clutters different types of scene context variability of motion scales appearance changes occlusions and object interactions For a computer vision system it has been be very challenging to achieve automatic video event understanding for decades Broadly speaking those challenges include robust detection of events under tion clutters event interpretation under complex scenes multi level semantic event inference putting events in context and multiple cameras event inference from object interactions etc In recent years steady progress has been made towards better models for video event categorisation and recognition e g from modelling events with bag of spatial temporal features to discovering event context from detecting events using a single camera to inferring events through a distributed camera network and from low level event feature extraction and description to high level semantic event classification and recognition Nowadays text based video retrieval is widely used by commercial search engines However it is still very difficult to retrieve or categorise a specific video segment based on their content in a real multimedia system or in surveillance applications Visual Analysis of Humans Thomas B. Moeslund, Adrian Hilton, Volker Krüger, Leonid Sigal, 2011-10-08 This unique text reference provides a coherent and comprehensive overview of all aspects of video analysis of humans Broad in coverage and accessible in style the text presents original perspectives collected from preeminent researchers gathered from across the world In addition to presenting state of the art research the book reviews the historical origins of the different existing methods and predicts future trends and challenges Features with a Foreword by Professor Larry Davis contains contributions from an international selection of leading authorities in the field includes an extensive glossary discusses the problems associated with detecting and tracking people through camera networks examines topics related to determining the time varying 3D pose of a person from video investigates the representation and recognition of human and vehicular actions reviews the most important applications of activity recognition from biometrics and surveillance to sports and driver assistance **Computer Vision - ACCV 2016** Workshops Chu-Song Chen, Jiwen Lu, Kai-Kuang Ma, 2017-03-14 The three volume set consisting of LNCS 10116 10117 and 10118 contains carefully reviewed and selected papers presented at 17 workshops held in conjunction with the 13th Asian Conference on Computer Vision ACCV 2016 in Taipei Taiwan in November 2016 The 134 full papers presented were selected from 223 submissions LNCS 10116 contains the papers selected Computer Vision Systems Mei Chen, Bastian Leibe, Bernd Neumann, 2013-07-11 This book constitutes the refereed proceedings of the 9th International Conference on Computer Vision Systems ICVS 2013 held in St Petersburg Russia July 16 18 2013 Proceedings The 16 revised papers presented with 20 poster papers were carefully reviewed and selected from 94 submissions. The papers are organized in

topical sections on image and video capture visual attention and object detection self localization and pose estimation motion and tracking 3D reconstruction features learning and validation *Artificial Intelligence and Soft Computing, Part I Leszek* Rutkowski, Rafal Scherer, Ryszard Tadeusiewicz, Lotfi A. Zadeh, Jacek M. Zurada, 2010-06 This volume constitutes the proceedings of the 10th International Conference on Artificial Intelligence and Soft Computing ICAISC 2010 held in Zakopane Poland in June 13 17 2010 The articles are organized in topical sections on Fuzzy Systems and Their Applications Data Mining Classification and Forecasting Image and Speech Analysis Bioinformatics and Medical Applications Volume 6113 together with Neural Networks and Their Applications Evolutionary Algorithms and Their Applications Agent System Robotics and Control Various Problems and Artificial Intelligence Volume 6114 **Visual Perception for Humanoid** Robots David Israel González Aguirre, 2018-09-01 This book provides an overview of model based environmental visual perception for humanoid robots The visual perception of a humanoid robot creates a bidirectional bridge connecting sensor signals with internal representations of environmental objects The objective of such perception systems is to answer two fundamental questions What where is it To answer these questions using a sensor to representation bridge coordinated processes are conducted to extract and exploit cues matching robot s mental representations to physical entities These include sensor actuator modeling calibration filtering and feature extraction for state estimation This book discusses the following topics in depth Active Sensing Robust probabilistic methods for optimal high dynamic range image acquisition are suitable for use with inexpensive cameras This enables ideal sensing in arbitrary environmental conditions encountered in human centric spaces The book quantitatively shows the importance of equipping robots with dependable visual sensing Feature Extraction Recognition Parameter free edge extraction methods based on structural graphs enable the representation of geometric primitives effectively and efficiently This is done by eccentricity segmentation providing excellent recognition even on noisy low resolution images Stereoscopic vision Euclidean metric and graph shape descriptors are shown to be powerful mechanisms for difficult recognition tasks Global Self Localization Depth Uncertainty Learning Simultaneous feature matching for global localization and 6D self pose estimation are addressed by a novel geometric and probabilistic concept using intersection of Gaussian spheres The path from intuition to the closed form optimal solution determining the robot location is described including a supervised learning method for uncertainty depth modeling based on extensive ground truth training data from a motion capture system The methods and experiments are presented in self contained chapters with comparisons and the state of the art The algorithms were implemented and empirically evaluated on two humanoid robots ARMAR III A B The excellent robustness performance and derived results received an award at the IEEE conference on humanoid robots and the contributions have been utilized for numerous visual manipulation tasks with demonstration at distinguished venues such as ICRA CeBIT IAS and Automatica Advances and Trends in Artificial Intelligence. From Theory to Practice Franz Wotawa, Gerhard Friedrich, Ingo Pill, Roxane Koitz-Hristov, Moonis Ali, 2019-06-28

This book constitutes the thoroughly refereed proceedings of the 32nd International Conference on Industrial Engineering and Other Applications of Applied Intelligent Systems IEA AIE 2019 held in Graz Austria in July 2019 The 41 full papers and 32 short papers presented were carefully reviewed and selected from 151 submissions The IEA AIE 2019 conference will continue the tradition of emphasizing on applications of applied intelligent systems to solve real life problems in all areas These areas include engineering science industry automation and robotics business and finance medicine and biomedicine bioinformatics cyberspace and human machine interactions IEA AIE 2019 will have a special focus on automated driving and autonomous systems and also contributions dealing with such systems or their verification and validation as well Pattern Recognition and Machine Intelligence Santanu Chaudhury, Sushmita Mitra, C.A. Murthy, P.S. Sastry, Sankar Kumar Pal, 2009-12-15 This volume contains the proceedings of the third international conference on Pattern Recognition and Machine Intelligence PReMI 2009 which was held at the Indian Institute of Technology New Delhi India during December 16 20 2009 This was the third conference in the series The first two conferences were held in December at the Indian Statistical Institute Kolkata in 2005 and 2007 PReMI has become a premier conference in India presenting state of art research findings in the areas of machine intelligence and pattern recognition. The conference is also successful in encouraging academic and industrial interaction and in proming collaborative research and developmental activities in pattern recognition chine intelligence and other allied fields involving scientists engineers professionals researchers and students from India and abroad The conference is scheduled to be held every alternate year making it an ideal platform for sharing views and expe ences in these fields in a regular manner The focus of PReMI 2009 was soft computing machine learning pattern recognition and their applications to diverse fields As part of PReMI 2009 we had two special workshops One workshop focused on text mining The other workshop show cased industrial and developmental projects in the relevant areas Premi 2009 attracted 221 submissions from different countries across the world <u>Understanding Human Activities Through 3D Sensors</u> Hazem Wannous, Pietro Pala, Mohamed Daoudi, Francisco Flórez-Revuelta, 2018-05-15 This book constitutes the revised selected papers of the Second International Workshop on Understanding Human Activities through 3D Sensors UHA3DS 2016 that was held in conjunction with the 23rd International Conference on Pattern Recognition ICPR 2016 held in Cancun Mexico in December 2016 The 9 revised full papers were carefully reviewed and selected from 12 submissions The papers are organized in topical sections on Behavior Analysis Human Motion Recognition and Application Datasets EVOLVE - A Bridge between Probability, Set Oriented Numerics, and Evolutionary Computation III Oliver Schuetze, Carlos A. Coello, Alexandru-Adrian Tantar, Emilia Tantar, Pascal Bouvry, Pierre Del Moral, Pierrick Legrand, 2013-07-23 This book comprises a selection of extended abstracts and papers presented at the EVOLVE 2012 held in Mexico City Mexico The aim of the EVOLVE is to build a bridge between probability set oriented numerics and evolutionary computation as to identify new common and challenging research aspects The conference is also intended to foster a growing interest for robust and

efficient methods with a sound theoretical background EVOLVE aims to unify theory inspired methods and cutting edge techniques ensuring performance guarantee factors By gathering researchers with different backgrounds a unified view and vocabulary can emerge where the theoretical advancements may echo in different domains Summarizing the EVOLVE conference focuses on challenging aspects arising at the passage from theory to new paradigms and aims to provide a unified view while raising questions related to reliability performance guarantees and modeling The extended papers of the EVOLVE 2012 make a contribution to this goal EVOLVE - A Bridge between Probability, Set Oriented Numerics, and Evolutionary Computation II Oliver Schütze, Carlos A. Coello Coello, Alexandru-Adrian Tantar, Emilia Tantar, Pascal Bouvry, Pierre Del Moral, Pierrick Legrand, 2012-08-14 This book comprises a selection of papers from the EVOLVE 2012 held in Mexico City Mexico The aim of the EVOLVE is to build a bridge between probability set oriented numerics and evolutionary computing as to identify new common and challenging research aspects The conference is also intended to foster a growing interest for robust and efficient methods with a sound theoretical background EVOLVE is intended to unify theory inspired methods and cutting edge techniques ensuring performance guarantee factors By gathering researchers with different backgrounds a unified view and vocabulary can emerge where the theoretical advancements may echo in different domains Summarizing the EVOLVE focuses on challenging aspects arising at the passage from theory to new paradigms and aims to provide a unified view while raising questions related to reliability performance guarantees and modeling The papers of the EVOLVE 2012 make a contribution to this goal Computer Vision - ECCV 2008 David Forsyth, Philip Torr, Andrew Zisserman, 2008-10-14 The four volume set comprising LNCS volumes 5302 5303 5304 5305 constitutes the refereed proceedings of the 10th European Conference on Computer Vision ECCV 2008 held in Marseille France in October 2008 The 243 revised papers presented were carefully reviewed and selected from a total of 871 papers submitted The four books cover the entire range of current issues in computer vision The papers are organized in topical sections on recognition stereo people and face recognition object tracking matching learning and features MRFs segmentation computational photography and active reconstruction Computer Vision - ECCV 2020 Andrea Vedaldi, Horst Bischof, Thomas Brox, Jan-Michael Frahm, 2020-11-12 The 30 volume set comprising the LNCS books 12346 until 12375 constitutes the refereed proceedings of the 16th European Conference on Computer Vision ECCV 2020 which was planned to be held in Glasgow UK during August 23 28 2020 The conference was held virtually due to the COVID 19 pandemic The 1360 revised papers presented in these proceedings were carefully reviewed and selected from a total of 5025 submissions. The papers deal with topics such as computer vision machine learning deep neural networks reinforcement learning object recognition image classification image processing object detection semantic segmentation human pose estimation 3d reconstruction stereo vision computational photography neural networks image coding image reconstruction object recognition motion estimation **Stereo Vision** Asim Bhatti, 2008-11-01 The book comprehensively covers almost all aspects of stereo vision In addition reader can find

topics from defining knowledge gaps to the state of the art algorithms as well as current application trends of stereo vision to the development of intelligent hardware modules and smart cameras It would not be an exaggeration if this book is considered to be one of the most comprehensive books published in reference to the current research in the field of stereo vision Research topics covered in this book makes it equally essential and important for students and early career researchers as well as senior academics linked with computer vision Human Performance Technology: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2019-05-03 Business practices are rapidly changing due to technological advances in the workplace Organizations are challenged to implement new programs for more efficient business while maintaining their standards of excellence and achievement Human Performance Technology Concepts Methodologies Tools and Applications is a vital reference source for the latest research findings on real world applications of digital tools for human performance enhancement across a variety of settings This publication also examines the utilization of problem based instructional techniques for challenges and solutions encountered by industry professionals Highlighting a range of topics such as performance support systems workplace curricula and instructional technology this multi volume book is ideally designed for business executives and managers business professionals human resources managers academicians and researchers actively involved in the business industry **Pattern Recognition** Fred A. Hamprecht, Christoph Schnörr, Bernd Jähne, 2007-09-22 This book constitutes the refereed proceedings of the 29th Symposium of the German Association for Pattern Recognition DAGM 2007 It covers image filtering restoration and segmentation shape analysis and representation categorization and detection computer vision and image retrieval machine learning and statistical data analysis biomedical data analysis motion analysis and tracking stereo and structure from motion as well as 3D view registration and surface modeling

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