

Camera-Aided Robot Calibration



Hanqi Zhuang
Zvi S. Roth

Camera Aided Robot Calibration

Yan Meng



Camera Aided Robot Calibration:

Camera-Aided Robot Calibration Hangi Zhuang, Zvi S. Roth, 1996-06-27 Robot calibration is the process of enhancing the accuracy of a robot by modifying its control software This book provides a comprehensive treatment of the theory and implementation of robot calibration using computer vision technology It is the only book to cover the entire process of vision based robot calibration including kinematic modeling camera calibration pose measurement error parameter identification and compensation The book starts with an overview of available techniques for robot calibration with an emphasis on vision based techniques It then describes various robot camera systems Since cameras are used as major measuring devices camera calibration techniques are reviewed Camera Aided Robot Calibration studies the properties of kinematic modeling techniques that are suitable for robot calibration It summarizes the well known Denavit Hartenberg D H modeling convention and indicates the drawbacks of the D H model for robot calibration The book develops the Complete and Parametrically Continuous CPC model and the modified CPC model that overcome the D H model singularities The error models based on these robot kinematic modeling conventions are presented No other book available addresses the important practical issue of hand eye calibration This book summarizes current research developments and demonstrates the pros and cons of various approaches in this area The book discusses in detail the final stage of robot calibration accuracy compensation using the identified kinematic error parameters It offers accuracy compensation algorithms including the intuitive task point redefinition and inverse Jacobian algorithms and more advanced algorithms based on optimal control theory which are particularly attractive for highly redundant manipulators Camera Aided Robot Calibration defines performance indices that are designed for off line optimal selection of measurement configurations It then describes three approaches closed form gradient based and statistical optimization The included case study presents experimental results that were obtained by calibrating common industrial robots Different stages of operation are detailed illustrating the applicability of the suggested techniques for robot calibration Appendices provide readers with preliminary materials for easier comprehension of the subject matter Camera Aided Robot Calibration is a must have reference for researchers and practicing engineers the only one with all the information

Camera-aided Robot Calibration Hanqi Zhuang, 1996 Camera-aided Self-calibration of Robot Manipulators Yan Meng, 2000 Advanced Mathematical and Computational Tools in Metrology and Testing VIII Franco Pavese, 2009 The main theme of the AMCTM 2008 conference reinforced by the establishment of IMEKO TC21 was to provide a central opportunity for the metrology and testing community worldwide to engage with applied mathematicians statisticians and software engineers working in the relevant fields This review volume consists of reviewed papers prepared on the basis of the oral and poster presentations of the Conference participants It covers all the general matters of advanced statistical modeling e g uncertainty evaluation experimental design optimization data analysis and applications multiple measurands correlation etc metrology software e g engineering aspects requirements or specification risk assessment

software development software examination software tools for data analysis visualization experiment control best practice standards etc numerical methods e g numerical data analysis numerical simulations inverse problems uncertainty evaluation of numerical algorithms applications etc and data fusion techniques and design and analysis of inter laboratory comparisons

Industrial Robotics, 2004 Advances in Service and Industrial Robotics Carlo Ferraresi, Giuseppe Quaglia, 2017-07-24

This volume contains the proceedings of the 26th International Conference on Robotics in Alpe Adria Danube Region RAAD 2017 held at the Polytechnic University of Turin Italy from June 21-23 2017 The conference brought together academic and industrial researchers in robotics from 30 countries the majority of them affiliated to the Alpe Adria Danube Region and their worldwide partners RAAD 2017 covered all major areas of R D and innovation in robotics including the latest research trends The book provides an overview on the advances in service and industrial robotics The topics are presented in a sequence starting from the classical robotic subjects such as kinematics dynamics structures control and ending with the newest topics like human robot interaction and biomedical applications Researchers involved in the robotic field will find this an extraordinary and up to date perspective on the state of the art in this area Computational Kinematics Andrés

Kecskeméthy, Andreas Müller, 2009-10-06 Computational kinematics is an enthralling area of science with a rich spectrum of problems at the junction of mechanics robotics computer science mathematics and computer graphics The present book collects up to date methods as presented during the Fifth International Workshop on Computational Kinematics CK2009 held at the University of Duisburg Essen Germany The covered topics include design and optimization of cable driven robots analysis of parallel manipulators motion planning numerical methods for mechanism calibration and optimization geometric approaches to mechanism analysis and design synthesis of mechanisms kinematical issues in biomechanics balancing and construction of novel mechanical devices detection and treatment of singularities as well as computational methods for gear design The results should be of interest for practicing and research engineers as well as Ph D students from the fields of mechanical and electrical engineering computer science and computer graphics *Artificial Intelligence Applications and*

Innovations John MacIntyre, Ilias Maglogiannis, Lazaros Iliadis, Elias Pimenidis, 2019-05-15 This book constitutes the refereed proceedings of the 15th IFIP WG 12.5 International Conference on Artificial Intelligence Applications and Innovations AIAI 2019 held in Hersonissos Crete Greece in May 2019 The 49 full papers and 6 short papers presented were carefully reviewed and selected from 101 submissions They cover a broad range of topics such as deep learning ANN genetic algorithms optimization constraints modeling ANN training algorithms social media intelligent modeling text mining machine translation fuzzy modeling biomedical and bioinformatics algorithms and systems feature selection emotion recognition hybrid Intelligent models classification pattern recognition intelligent security modeling complex stochastic games unsupervised machine learning ANN in industry intelligent clustering convolutional and recurrent ANN recommender systems intelligent telecommunications modeling and intelligent hybrid systems using Internet of Things The papers are organized in the

following topical sections AI anomaly detection active learning autonomous vehicles aerial vehicles biomedical AI
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 Reddy, Deepak Marla, Margarita N. Favorskaya, Suresh Chandra Satapathy, 2021-12-10 This book includes best selected high
 quality research papers presented at the International Conference on Intelligent Manufacturing and Energy Sustainability
 ICIMES 2021 held at the Department of Mechanical Engineering Malla Reddy College of Engineering Technology MRCET
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CAD-based Robot Motion Planning for Inspection in Manufacturing Weihua Sheng, 2002 *Journal of Dong Hua University*, 2004 **Develop Rapid 3D Surface Measurement Systems for Quality Inspection in the Manufacturing Industry** Quan Shi, 2008 [Machine Vision and Three-dimensional Imaging Systems for Inspection and Metrology](#), 2001 **Model-based Image Processing** Yeuk Fai Ho, 2000 [VRST](#), 1999 **Proceedings of the ... SICE Annual Conference** Keisoku Jidō Seigyo Gakkai (Japan). Gakujutsu Kōenkai, 2000 **Microrobotics and Microassembly**, 1999

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