

Machine Vision Algorithms in Java



Techniques and Implementation

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Machine Vision Algorithms In Java Techniques And Implementation

Yan Bai



Machine Vision Algorithms In Java Techniques And Implementation:

Machine Vision Algorithms in Java Paul F. Whelan, Derek Molloy, 2012-12-06 Machine Vision Algorithms in Java provides a comprehensive introduction to the algorithms and techniques associated with machine vision systems The Java programming language is also introduced with particular reference to its imaging capabilities The book contains explanations of key machine vision techniques and algorithms along with the associated Java source code Special features include A complete self contained treatment of the topics and techniques essential to the understanding and implementation of machine vision An introduction to object oriented programming and to the Java programming language with particular reference to its imaging capabilities Java source code for a wide range of practical image processing and analysis functions Readers will be given the opportunity to download a fully functional Java based visual programming environment for machine vision available via the WWW This contains over 200 image processing manipulation and analysis functions and will enable users to implement many of the ideas covered in this book Details relating to the design of a Java based visual programming environment for machine vision An introduction to the Java 2D imaging and Java Advanced Imaging JAI APIs A wide range of illustrative examples Practical treatment of the subject matter This book is aimed at senior undergraduate and postgraduate students in engineering and computer science as well as practitioners in machine vision who may wish to update or expand their knowledge of the subject The techniques and algorithms of machine vision are expounded in a way that will be understood not only by specialists but also by those who are less familiar with the topic

Machine Vision for the Inspection of Natural Products Mark Graves, Bruce Batchelor, 2006-05-18 Machine vision technology has revolutionised the process of automated inspection in manufacturing The specialist techniques required for inspection of natural products such as food leather textiles and stone is still a challenging area of research Topological variations make image processing algorithm development system integration and mechanical handling issues much more complex The practical issues of making machine vision systems operate robustly in often hostile environments together with the latest technological advancements are reviewed in this volume Features Case studies based on real world problems to demonstrate the practical application of machine vision systems In depth description of system components including image processing illumination real time hardware mechanical handling sensing and on line testing Systems level integration of constituent technologies for bespoke applications across a variety of industries A diverse range of example applications that a system may be required to handle from live fish to ceramic tiles Machine Vision for the Inspection of Natural Products will be a valuable resource for researchers developing innovative machine vision systems in collaboration with food technology textile and agriculture sectors It will also appeal to practising engineers and managers in industries where the application of machine vision can enhance product safety and process efficiency

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Algorithms Using a Dynamically Typed Programming Language Jan Wedekind,2012 Current machine vision systems or at least their performance critical parts are predominantly implemented using statically typed programming languages such as C C or Java Statically typed languages however are unsuitable for development and maintenance of large scale systems When choosing a programming language dynamically typed languages are usually not considered due to their lack of support for high performance array operations This thesis presents efficient implementations of machine vision algorithms with the dynamically typed Ruby programming language The Ruby programming language was used because it has the best support for meta programming among the currently popular programming languages Although the Ruby programming language was used the approach presented in this thesis could be applied to any programming language which has equal or stronger support for meta programming e g Racket former PLT Scheme A Ruby library for performing I O and array operations was developed as part of this thesis It is demonstrated how the library facilitates concise implementations of machine vision algorithms commonly used in industrial automation I e this thesis is about a different way of implementing machine vision systems The work could be applied to prototype and in some cases implement machine vision systems in industrial automation and robotics The development of real time machine vision software is facilitated as follows 1 A JIT compiler is used to achieve real time performance It is demonstrated that the Ruby syntax is sufficient to integrate the JIT compiler transparently 2 Various I O devices are integrated for seamless acquisition display and storage of video and audio data In combination these two developments preserve the expressiveness of the Ruby programming language while providing good run time performance of the resulting implementation To validate this approach the performance of different operations is compared with the performance of equivalent C C programs **Books In Print 2004-2005** Ed Bowker Staff,Staff Bowker, Ed,2004 **International Aerospace Abstracts** ,1999 **Books in Print Supplement** ,2002 Index to Theses with

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Table of Contents Machine Vision Algorithms In Java Techniques And Implementation

1. Understanding the eBook Machine Vision Algorithms In Java Techniques And Implementation
 - The Rise of Digital Reading Machine Vision Algorithms In Java Techniques And Implementation
 - Advantages of eBooks Over Traditional Books
2. Identifying Machine Vision Algorithms In Java Techniques And Implementation
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Machine Vision Algorithms In Java Techniques And Implementation
 - User-Friendly Interface
4. Exploring eBook Recommendations from Machine Vision Algorithms In Java Techniques And Implementation
 - Personalized Recommendations

- Machine Vision Algorithms In Java Techniques And Implementation User Reviews and Ratings
- Machine Vision Algorithms In Java Techniques And Implementation and Bestseller Lists
- 5. Accessing Machine Vision Algorithms In Java Techniques And Implementation Free and Paid eBooks
 - Machine Vision Algorithms In Java Techniques And Implementation Public Domain eBooks
 - Machine Vision Algorithms In Java Techniques And Implementation eBook Subscription Services
 - Machine Vision Algorithms In Java Techniques And Implementation Budget-Friendly Options
- 6. Navigating Machine Vision Algorithms In Java Techniques And Implementation eBook Formats
 - ePub, PDF, MOBI, and More
 - Machine Vision Algorithms In Java Techniques And Implementation Compatibility with Devices
 - Machine Vision Algorithms In Java Techniques And Implementation Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Machine Vision Algorithms In Java Techniques And Implementation
 - Highlighting and Note-Taking Machine Vision Algorithms In Java Techniques And Implementation
 - Interactive Elements Machine Vision Algorithms In Java Techniques And Implementation
- 8. Staying Engaged with Machine Vision Algorithms In Java Techniques And Implementation
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Machine Vision Algorithms In Java Techniques And Implementation
- 9. Balancing eBooks and Physical Books Machine Vision Algorithms In Java Techniques And Implementation
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Machine Vision Algorithms In Java Techniques And Implementation
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Machine Vision Algorithms In Java Techniques And Implementation
 - Setting Reading Goals Machine Vision Algorithms In Java Techniques And Implementation
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Machine Vision Algorithms In Java Techniques And Implementation
 - Fact-Checking eBook Content of Machine Vision Algorithms In Java Techniques And Implementation

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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