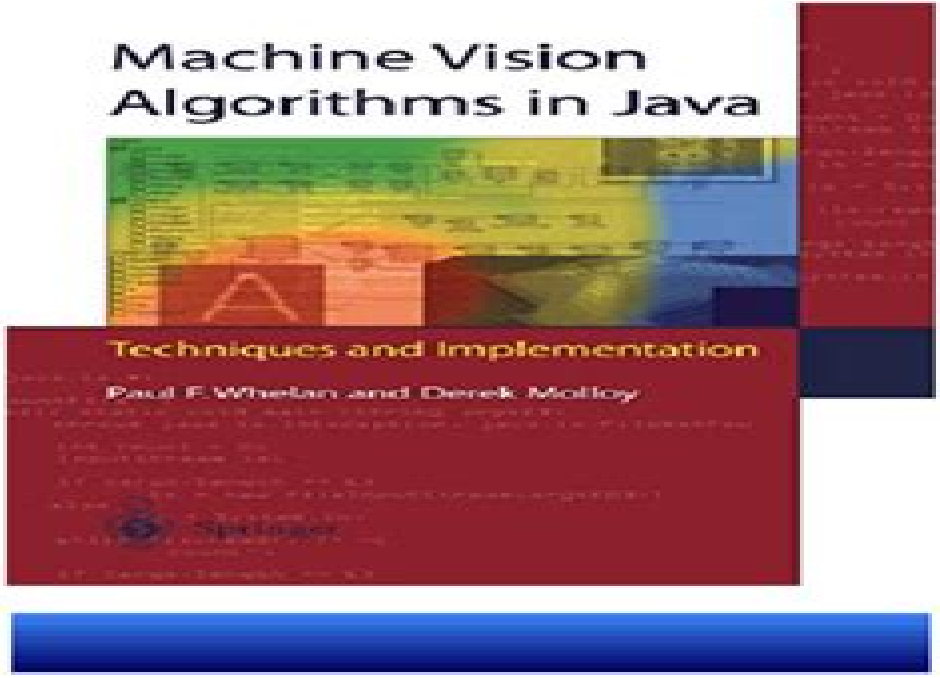
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Algorithms in Java
Techniques and Implementation
Paul F. Whelan and Derek Molloy

Machine Vision Algorithms In Java Techniques And Implementation

Albert A Gayle

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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 Computational Science And Its Applications - Iccsa 2005 Osvaldo Gervasi,2005-04-27 The four volume set LNCS 3480 3483 constitutes the refereed proceedings of the International

Conference on Computational Science and Its Applications ICCSA 2005 held in Singapore in May 2005 The four volumes present a total of 540 papers selected from around 2700 submissions The papers span the whole range of computational science comprising advanced applications in virtually all sciences making use of computational techniques as well as foundations techniques and methodologies from computer science and mathematics such as high performance computing and communication networking optimization information systems and technologies scientific visualization graphics image processing data analysis simulation and modelling software systems algorithms security multimedia etc ICOM 2003 - International Conference on Mechatronics R. M. Parkin,A. El-Habaibeh,M. R. Jackson,2003-08-01 This volume represents the proceedings of a prestigious international conference organized by Loughborough University which will be of interest to all those involved in this rapidly advancing field proving to be a vital read for all who wish to be well informed of developments and advances Also included is a CD ROM containing all the papers that were presented at the conference The CD ROM has been created using Adobe Acrobat Reader 5 0 with Search Acrobat Reader is a unique software application that allows the user the opportunity to view search download and print information electronically generated and produced in PDF format It has extensive search facilities by author subject key words etc Topics covered include Fundamental Enabling Technologies Automatic Control of Mechatronic Systems Mechatronic Components Robotics and Automation Mobile robots Integrated Mechatronic Systems Biomedical Applications Mechatronics Education **Intelligent Machine Vision** Bruce Batchelor,Frederick Waltz,2012-12-06 Intelligent Machine Vision Techniques Implementations algorithm optimization implementation in high speed electronic digital hardware implementation in an integrated high level software environment applications for industrial product quality and process control There are hundreds of illustrations in the book most of them created using the author s PIP software a sophisticated intelligent image processing package A demonstration version of this software as well as numerous examples from the book are available at the authors Web site http bruce cs cf ac uk bruce index html **Computational Science and Its Applications** ,2004 **Feature Extraction and Image Processing** Mark Nixon,2013-10-22 Focusing on feature extraction while also covering issues and techniques such as image acquisition sampling theory point operations and low level feature extraction the authors have a clear and coherent approach that will appeal to a wide range of students and professionals Ideal module text for courses in artificial intelligence image processing and computer vision Essential reading for engineers and academics working in this cutting edge field Supported by free software on a companion website Feature Extraction & Image Processing Mark Nixon,2008-01-08 Whilst other books cover a broad range of topics Feature Extraction and Image Processing takes one of the prime targets of applied computer vision feature extraction and uses it to provide an essential guide to the implementation of image processing and computer vision techniques Acting as both a source of reference and a student text the book explains techniques and fundamentals in a clear and concise manner and helps readers to develop working techniques with usable code provided throughout The new

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International Aerospace Abstracts ,1999 **Efficient Implementations of Machine Vision 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 **Cornell University Courses of Study** Cornell University,2007

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