

GENERIC OBJECT RECOGNITION USING FORM & FUNCTION

Louise Stark
Kevin Bowyer

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Generic Object Recognition Using Form And Function

Mohamed Kamel, Aurélio Campilho



Generic Object Recognition Using Form And Function:

Generic Object Recognition Using Form & Function Louise Stark, Kevin Bowyer, 1996 This monograph provides a detailed record of the GRUFF research project The goal of the GRUFF project is to develop techniques for robotic vision systems to recognize objects by reasoning about their intended function rather than matching to a pre defined database of 2 D object appearances or 3 D object shapes The contributions of this work are a demonstration of the feasibility of the form and function approach to reasoning about 3 D shapes a demonstration of the concept of using a small number of knowledge primitives as component building blocks in creating a function based definition of an object category and an indexing mechanism to make processing for recognition more efficient without any substantial decrease in correctness of classification Results are given for the analysis of over 500 3 D shape descriptions created with a solid modeling tool and over 200 shape descriptions extracted from real laser range finder images

Generic Object Recognition Using Form And Function Kevin Bowyer, Louise Stark, 1996-02-29 This monograph provides a detailed record of the GRUFF research project The goal of the GRUFF project is to develop techniques for robotic vision systems to recognize objects by reasoning about their intended function rather than matching to a pre defined database of 2 D object appearances or 3 D object shapes The contributions of this work are a demonstration of the feasibility of the form and function approach to reasoning about 3 D shapes a demonstration of the concept of using a small number of knowledge primitives as component building blocks in creating a function based definition of an object category and an indexing mechanism to make processing for recognition more efficient without any substantial decrease in correctness of classification Results are given for the analysis of over 500 3 D shape descriptions created with a solid modeling tool and over 200 shape descriptions extracted from real laser range finder images

Object Categorization Sven J. Dickinson, 2009-09-07 This edited volume presents a unique multidisciplinary perspective on the problem of visual object categorization The result of a series of four highly successful workshops on the topic the book gathers many of the most distinguished researchers from both computer and human vision to reflect on their experience identify open problems and foster a cross disciplinary discussion with the idea that parallel problems and solutions have arisen in both domains Twenty seven of these workshop speakers have contributed chapters including fourteen from computer vision and thirteen from human vision Their contributions range from broad perspectives on the problem to more specific approaches collectively providing important historical context identifying the major challenges and presenting recent research results This multidisciplinary collection is the first of its kind on the topic of object categorization providing an outstanding context for graduate students and researchers in both computer and human vision

Document Image Analysis Horst Bunke, Patrick S P Wang, Henry S Baird, 1994-12-20 Interest in the automatic processing and analysis of document images has been rapidly increasing during the past few years This book addresses the different subfields of document image analysis including preprocessing and segmentation form processing handwriting recognition line drawing

and map processing and contextual processing *Computational Intelligence in Archaeology* Barcelo, Juan A.,2008-07-31
Provides analytical theories offered by innovative artificial intelligence computing methods in the archaeological domain

Parallel Image Analysis L. S. Davis,1996 This volume deals with the following topics 2 D 3 D automata and grammars
parallel architecture for image processing parallel digital geometry algorithms data allocation strategies for parallel image
processing algorithms complexity analysis of parallel image operators The contributions are written by leading experts in the
fields of models algorithms and architectures for parallel image processing **Picture Interpretation: A Symbolic**

Approach Zhi-qiang Liu,Sandy Dance,1995-09-30 Traditional methods for image scene interpretation and understanding are
based mainly on such single threaded procedural paradigms as hypothesize and test or syntactic parsing As a result these
systems are unable to carry out tasks that require concurrent hypothesis testing This book explores a method for
symbolically interpreting images based upon a parallel implementation of a network of frames suggested for example by
Minsky 1975 to describe intelligent processing The system has been implemented in an object oriented environment in the
logic programming language Parlog and includes the propagation of uncertainty through each frame using Baldwin s 1986
formulation The system is tested with several scenarios of increasing complexity culminating with legal interpretation of
traffic intersection images Machine Learning And Perception Guido Tascini,Primo Zingaretti,Floriana Esposito,Vito

Roberto,1996-05-06 The present well established study of planets orbiting stars other than our Sun the exoplanets was
reviewed by the author in his earlier book *Wandering Stars* This new and exciting field of study has expanded quickly
particularly due to technological advances in both Earth based telescopes and more recently in the application of automatic
space vehicles Well over 300 exoplanets have now been catalogued each of mass comparable to or greater than those of the
major planets of the Solar System Earth sized bodies remain out of reach for the present The data obtained so far show that
the distribution of major planets in our Solar System is the exception rather than the rule contrary to earlier expectations A
few exoplanet systems do nevertheless give the promise of broadly Solar System conditions with the possibility of Earth like
components in appropriate orbits This immediately raises the age old question of whether there can be life elsewhere in the
Universe and whether this might involve advanced technologically capable beings like ourselves The topic is explored in this
workbook To gain a balanced perspective on these matters the arguments are set against the broad panorama of the
Universe on the one hand and on the evolution of life on Earth leading to Homo sapiens on the other More than this the
apparatus for achieving technological excellence such as the development of appropriate energy sources and the invention of
the required mathematical skills is also included This wide range of arguments is unusual This notebook cum workbook
provides a firm and comprehensive introduction to these studies It is written by an expert in the field for readers beginning
to ponder these questions seriously It is hoped that the reader will extend the arguments further as the subject develops A
special feature is an extensive compendium to act as the beginnings of a personal inventory The Inverted Bowl is in a very

real sense a companion to Wandering Stars a

Parallel Image Analysis: Theory And Applications L S Davis, Katsushi Inoue, M Nivat, Azriel Rosenfeld, Patrick S P Wang, 1995-12-26 This volume deals with the following topics 2 D 3 D automata and grammars parallel architecture for image processing parallel digital geometry algorithms data allocation strategies for parallel image processing algorithms complexity analysis of parallel image operators The contributions are written by leading experts in the fields of models algorithms and architectures for parallel image processing

Modelling And Planning For Sensor Based Intelligent Robot Systems Horst Bunke, Hartmut Noltemeier, Takeo Kanade, 1995-10-24 This edited and reviewed volume consists of papers that were originally presented at a workshop in the Scientific Center at Schloss Dagstuhl Germany It gives an overview of the field and presents the latest developments in the areas of modeling and planning for sensor based robots The particular topics addressed include active vision sensor fusion environment modeling motion planning robot navigation distributed control architectures reactive behavior and others

Towards Affordance-Based Robot Control Erich Rome, Joachim Hertzberg, Georg Dorffner, 2008-02-11 Today's mobile robot perception is insufficient for acting goal directedly in unconstrained dynamic everyday environments like a home a factory or a city Subject to restrictions in bandwidth computer power and computation time a robot has to react to a wealth of dynamically changing stimuli in such environments requiring rapid selective attention to decisive action relevant information of high current utility Robust and general engineering methods for effectively and efficiently coupling perception action and reasoning are unavailable Interesting performance if any is currently only achieved by sophisticated robot programming exploiting domain features and specialties which leaves ordinary users no chance of changing how the robot acts The purpose of this volume outcome of a GI Dagstuhl Seminar held in Dagstuhl Castle in June 2006 is to give a first overview on the concept of affordances for the design and implementation of autonomous mobile robots acting goal directedly in a dynamic environment The aim is to develop affordance based control as a method for robotics The potential of this new methodology will be shown by going beyond navigation like tasks towards goal directed autonomous manipulation in the project demonstrators

Machine Vision For Advanced Production Louis-francois Pau, Matti K Pietikainen, 1996-07-18 Machine vision technology has created a strong interest among research organizations resulting in many innovative products Despite this end users have been very skeptical towards machine vision and its robustness in harsh industrial environments This book presents the results of a national machine vision technology program aimed at boosting research and putting research results to work in practical industrial applications The topics to be covered include image acquisition analysis of surface color and texture applications of machine vision in surface inspection and process control 3 D measurements and CAD based machine vision

Cognitive Systems Henrik Christensen, Geert-Jan M. Kruijff, Jeremy L. Wyatt, 2010-04-05 Design of cognitive systems for assistance to people poses a major challenge to the fields of robotics and artificial intelligence The Cognitive Systems for Cognitive Assistance CoSy project was organized to address the issues of i theoretical progress on design of cognitive systems ii methods for

implementation of systems and iii empirical studies to further understand the use and interaction with such systems To study design and deploy cognitive systems there is a need to consider aspects of systems design embodiment perception planning and error recovery spatial insertion knowledge acquisition and machine learning dialog design and human robot interaction and systems integration The CoSy project addressed all of these aspects over a period of four years and across two different domains of application exploration of space and task knowledge acquisition for manipulation The present volume documents the results of the CoSy project The CoSy project was funded by the European Commission as part of the Cognitive Systems Program within the 6th Framework Program

Introduction to AI Robotics Robin Murphy, 2000 This text provides the material needed to understand the principles behind the AI approach to robotics and to programme an artificially intelligent robot for applications involving sensing navigation planning and uncertainty

Summary of Awards, 1991 *Virtual Humans* Peter M. Plantec, 2004 Foreword by Ray Kurzweil author The Age of Spiritual Machines Virtual humans may seem like something out of science fiction but they are already here Companies use them as website hosts individuals use them as personal assistants and people interact with them in computer games educational applications and many other arenas The possibilities are limitless but the most amazing thing is that anyone can create a V human from scratch Virtual Humans gives not just start to finish instructions for designing a charming synthetic person but also a CD ROM containing the tools and techniques to make it real Readers will learn how to create their own authentic and engaging personalities apply VH technology to business and individual projects add synthetic voices and realistic faces to virtual humans use personality psychology and humor in character design design advanced emotion expression engines This book and CD package is the first of its kind and a landmark on a par with the first build your own Web site products Readers will be among the first to create ultra realistic versatile V human personalities and will start well ahead of what is soon to be a tidal wave of worldwide interest

Sensor Based Intelligent Robots Gregory D. Hager, Henrik I. Christensen, Horst Bunke, Rolf Klein, 2003-08-06 Robotics is a highly interdisciplinary research topic that requires integration of methods for mechanics control engineering signal processing planning graphics human computer interaction real time systems applied mathematics and software engineering to enable construction of fully operational systems The diversity of topics needed to design implement and deploy such systems implies that it is almost impossible for individual teams to provide the needed critical mass for such endeavors To facilitate interaction and progress on sensor based intelligent robotics interdisciplinary workshops are necessary through which depth discussion can be used for cross dissemination between different disciplines The Dagstuhl foundation has organized a number of workshops on Modeling and Integration of Sensor Based Intelligent Robot Systems The Dagstuhl seminars take place over a full week in a beautiful setting in the Saarland in Germany The setting provides an ideal environment for in depth presentations and rich interaction between the participants This volume contains papers presented during the fourth workshop held tober 15 20 2000 All papers were submitted by workshop attendees and were reviewed by

at least one reviewer We wish to thank all of the reviewers for their invaluable help in making this a high quality selection of papers We gratefully acknowledge the support of the Schloss Dagstuhl Foundation and the staff at Springer Verlag Without their support the production of this volume would not have been possible *Sensor Based Intelligent Robots* ,2000

Intelligent Robots - Sensing, Modeling And Planning Bob Bolles,Horst Bunke,Hartmut Noltemeier,1997-12-04 Rapid advances in sensors computers and algorithms continue to fuel dramatic improvements in intelligent robots In addition robot vehicles are starting to appear in a number of applications For example they have been installed in public settings to perform such tasks as delivering items in hospitals and cleaning floors in supermarkets recently two small robot vehicles were launched to explore Mars This book presents the latest advances in the principal fields that contribute to robotics It contains contributions written by leading experts addressing topics such as Path and Motion Planning Navigation and Sensing Vision and Object Recognition Environment Modeling and others *Image Analysis and Recognition* Mohamed Kamel,Aur lio Campilho,2005-10-10 ICIAR 2005 the International Conference on Image Analysis and Recognition was the second ICIAR conference and was held in Toronto Canada ICIAR is organized annually and alternates between Europe and North America ICIAR 2004 was held in Porto Portugal The idea of organizing these conferences came as a result of discussion between researchers in Portugal and Canada to encourage collaboration and exchange mainly between these two countries but also with the open participation of other countries addressing recent advances in theory methodology and applications TheresponsetothecallforpapersforICIAR2005wasencouraging From295 full papers submitted 153 were orally accepted 80 oral presentations and 73 posters The review process was carried out by the Program Committee membersandotherreviewers allareexpertsinvariousimageanalysisandrecognition areas Each paper was reviewed by at least two reviewers and also checked by the conference co chairs The high quality of the papers in these proceedings is attributed first to the authors and second to the quality of the reviews provided by the experts We would like to thank the authors for responding to our call andwewholeheartedlythankthe reviewersfor their excellentwork andfortheir timely response It is this collective effort that resulted in the strong conference program and high quality proceedings in your hands

Generic Object Recognition Using Form And Function Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Generic Object Recognition Using Form And Function**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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