



Machine Intelligence and Knowledge Engineering for Robotic Applications

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WORLD SCIENTIFIC

Machine Intelligence And Knowledge Engineering For Robotic Applications

Robert D. Tennyson



Machine Intelligence And Knowledge Engineering For Robotic Applications:

Machine Intelligence and Knowledge Engineering for Robotic Applications Andrew K.C. Wong, Alan Pugh, 2012-12-06 This book is the outcome of the NATO Advanced Research Workshop on Machine Intelligence and Knowledge Engineering for Robotic Applications held at Maratea Italy in May 1986 Attendance of the workshop was by invitation only Most of the participants and speakers are recognized leaders in the field representing industry government and academic community worldwide The focus of the workshop was to review the recent advances of machine intelligence and knowledge engineering for robotic applications It covers five main areas of interest They are grouped into five sections 1 Robot Vision 2 Knowledge Representation and Image Understanding 3 Robot Control and Inference Systems 4 Task Planning and Expert Systems 5 Software Hardware Systems Also included in this book are a paper from the Poster Session and a brief report of the panel discussion on the Future Direction in Knowledge Based Robotics Section I of this book consists of four papers It begins with a review of the basic concepts of computer vision with emphasis on techniques specific for robot vision systems The next paper presents a comprehensive 3 D vision system for robotic application

Machine Intelligence and Knowledge Engineering NATO Advanced Research Workshop on Machine, 1987

High-Capacity Local and Metropolitan Area Networks Guy Pujolle, 2012-12-06 The main objective of this workshop was to review and discuss the state of the art and the latest advances in the area of 1 10 Gbit s throughput for local and metropolitan area networks The first generation of local area networks had throughputs in the range 1 20 Mbit s Well known examples of this first generation networks are the Ethernet and the Token Ring The second generation of networks allowed throughputs in the range 100 200 Mbit s Representatives of this generation are the FDDI double ring and the DQDB IEEE 802.6 networks The third generation networks will have throughputs in the range 1 10 Gbit s The rapid development and deployment of fiber optics worldwide as well as the projected emergence of a market for broadband services have given rise to the development of broadband ISDN standards Currently the Asynchronous Transfer Mode ATM appears to be a viable solution to broadband networks The possibility of all optical networks in the future is being examined This would allow the tapping of approximately 50 terahertz or so available in the lightwave range of the frequency spectrum It is envisaged that using such a high speed network it will be feasible to distribute high quality video to the home to carry out rapid retrieval of radiological and other scientific images and to enable multi media conferencing between various parties

Constructive Methods in Computing Science Manfred Broy, 2012-12-06 Computing Science is a science of constructive methods The solution of a problem has to be described formally by constructive techniques if it is to be evaluated on a computer The Marktoberdorf Advanced Study Institute 1988 presented a comprehensive survey of the recent research in constructive methods in Computing Science Some approaches to a methodological framework and to supporting tools for specification development and verification of software systems were discussed in detail Other lectures dealt with the relevance of the foundations of logic for questions of program

construction and with new programming paradigms and formalisms which have proven to be useful for a constructive approach to software development The construction specification design and verification especially of distributed and communicating systems was discussed in a number of complementary lectures Examples for those approaches were given on several levels such as semaphores nondeterministic state transition systems with fairness assumptions decomposition of specifications for concurrent systems in liveness and safety properties and functional specifications of distributed systems Construction methods in programming that were presented range from type theory the theory of evidence theorem provers for proving properties of functional programs to category theory as an abstract and general concept for the description of programming paradigms

Flow Control of Congested Networks Amedeo R. Odoni, Lucio Bianco, Giorgio Szegö, 2012-12-06 This volume is a compendium of papers presented during the NATO Workshop which took place in Capri Italy October 12 18 1986 on the general subject of Flow Control of Congested Networks The Case of Data Processing and Transportation and of which we acted as co chairmen The focus of the workshop was on flow control methodologies as applied to preventing or reducing congestion on 1 data communication networks 2 urban transportation networks and 3 air traffic control systems The goals of the workshop included review of the state of the art of flow control methodologies in general and in each of the three application areas identification of similarities and differences in the objective functions modeling approaches and mathematics used in the three areas examination of opportunities for technology transfers and for future interactions among researchers in the three areas These goals were pursued through individual presentations of papers on current research by workshop participants and in the cases of the second and third goals through a number of open ended discussion and review sessions which were interspersed throughout the workshop s programmed The full texts or extended summaries of all but a few of the papers given at the workshop are included in this volume

Expert Judgment and Expert Systems Jeryl L. Mumpower, Lawrence D. Phillips, Ortwin Renn, V.R.R. Uppuluri, 2012-12-06 This volume is an outgrowth of a NATO Advanced Research Workshop on Expert Judgment and Expert Systems held in Porto Portugal August 1986 Support for the Workshop was provided by the NATO Division of Scientific Affairs the U S Army Research Institute and the U S National Science Foundation The Workshop brought together researchers from the fields of psychology decision analysis and artificial intelligence The purposes were to assess similarities differences and complementarities among the three approaches to the study of expert judgment to evaluate their relative strengths and weaknesses and to propose profitable linkages between them Each of the papers in the present volume is directed toward one or more of those goals We wish to express our appreciation and thanks to the following persons for their support and assistance John Adams Vincent T Covello Luis da Cunha Claire Jeseo B Michael Kantrowitz Margaret Lally Judith Orasanu R M Rodrigues and Sandor P Schuman

Real-Time Integration Methods for Mechanical System Simulation Edward J. Haug, Roderic C. Deyo, 2013-06-29 This book contains the edited versions of lectures and selected contributed papers presented at the NATO Advanced

Research Workshop on Real Time Integration Methods For Mechanical System Simulation held in Snowbird Utah August 7 11 1989 The Institute was attended by 42 participants from 9 countries including leading mathematicians and engineers from universities research institutions and industry The majority of participants presented either invited or contributed papers during the Institute and everyone participated in lively discussions on scientific aspects of the program The Workshop provided a forum for investigation of promising new directions for solution of differential algebraic equations DAE of mechanical system dynamics by mathematicians and engineers from numerous schools of thought The Workshop addressed needs and opportunities for new methods of solving of DAE of mechanical system dynamics from the perspective of a broad range of engineering and scientific applications Among the most exciting new applications addressed was real time computer simulation of mechanical systems that for the first time in human history permits operator in the loop simulation of equipment that is controlled by the human e g driving a vehicle operating a space telerobot operating a remote manipulator and operating construction equipment The enormous potential value of this new application and the fact that real time numerical integration methods for DAE of mechanical system dynamics is the pacing problem to be solved in realizing this potential served to focus much of the discussion at the Workshop

Syntactic and Structural Pattern Recognition

Gabriel Ferrate, Theo Pavlidis, Alberto Sanfeliu, Horst Bunke, 2012-12-06 Thirty years ago pattern recognition was dominated by the learning machine concept that one could automate the process of going from the raw data to a classifier The derivation of numerical features from the input image was not considered an important step One could present all possible features to a program which in turn could find which ones would be useful for pattern recognition In spite of significant improvements in statistical inference techniques progress was slow It became clear that feature derivation was a very complex process that could not be automated and that features could be symbolic as well as numerical Furthermore the spatial relationship amongst features might be important It appeared that pattern recognition might resemble language analysis since features could play the role of symbols strung together to form a word This led to the genesis of syntactic pattern recognition pioneered in the middle and late 1960 s by Russel Kirsch Robert Ledley Nararimhan and Allan Shaw However the thorough investigation of the area was left to King Sun Fu and his students who until his untimely death produced most of the significant papers in this area One of these papers syntactic recognition of fingerprints received the distinction of being selected as the best paper published that year in the IEEE Transaction on Computers Therefore syntactic pattern recognition has a long history of active research and has been used in industrial applications

Logic of Programming and Calculi of Discrete Design Manfred Broy, 2012-12-06 In computing science design plays an eminently important role By now it is quite clear that the issue of proper design of programs within a formal calculus is one of the most interesting and most difficult parts of computing science Many demanding problems have to be envisaged here such as notations rules and calculi and the study of semantic models We are far away from comprehensive and widely accepted

solutions in these areas Discussions at the summer school have clearly shown that people have quite different perspectives and priorities with respect to these three main areas There is a general agreement that notation is very important Here notation is not so much used in the sense of syntactic sugar but rather in the sense of abstract syntax in the sense of language constructs Proper notation can significantly improve our understanding of the nature of the objects that we are dealing with and simplify the formal manipulation of these objects However influenced by educational background habits and schools of thought there are quite different tastes with respect to notation The papers in these proceedings show very clearly how different those notations can be even when talking about quite similar objects

Signal Processing and Pattern Recognition in Nondestructive Evaluation of Materials C.H. Chen,2012-12-06 The NATO Advanced Research Workshop on Signal Processing and Pattern Recognition in Nondestructive Evaluation NOE of Materials was held August 19 22 1987 at the Manoir St Castin Lac Beauport Quebec Canada Modern signal processing pattern recognition and artificial intelligence have been playing an increasingly important role in improving nondestructive evaluation and testing techniques The cross fertilization of the two major areas can lead to major advances in NOE as well as presenting a new research area in signal processing With this in mind the Workshop provided a good review of progress and comparison of potential techniques as well as constructive discussions and suggestions for effective use of modern signal processing to improve flaw detection classification and prediction as well as material characterization This Proceedings volume includes most presentations given at the Workshop This publication like the meeting itself is unique in the sense that it provides extensive interactions among the interrelated areas of NOE The book starts with research advances on inverse problems and then covers different aspects of digital waveform processing in NOE and eddy current signal analysis These are followed by four papers of pattern recognition and AI in NOE and five papers of image processing and reconstruction in NOE The last two papers deal with parameter estimation problems Though the list of papers is not extensive as the field of NOE signal processing is very new the book has an excellent collection of both tutorial and research papers in this exciting new field

Computer Algorithms for Solving Linear Algebraic Equations Emilio Spedicato,2012-12-06 The NATO Advanced Study Institute on Computer algorithms for solving linear algebraic equations the state of the art was held September 9 21 1990 at II Ciocco Barga Italy It was attended by 68 students among them many well known specialists in related fields from the following countries Belgium Brazil Canada Czechoslovakia Denmark France Germany Greece Holland Hungary Italy Portugal Spain Turkey UK USA USSR Yugoslavia Solving linear equations is a fundamental task in most of computational mathematics Linear systems which are now encountered in practice may be of very large dimension and their solution can still be a challenge in terms of the requirements of accuracy or reasonable computational time With the advent of supercomputers with vector and parallel features algorithms which were previously formulated in a framework of sequential operations often need a completely new formulation and algorithms that were not recommended in a sequential framework may become the

best choice The aim of the ASI was to present the state of the art in this field While not all important aspects could be covered for instance there is no presentation of methods using interval arithmetic or symbolic computation we believe that most important topics were considered many of them by leading specialists who have contributed substantially to the developments in these fields

Algorithms and Model Formulations in Mathematical Programming Stein W. Wallace, 2012-12-06 The NATO Advanced Research Workshop ARW Algorithms and Model Formulations in Mathematical Programming was held at Chr Michelsen Institute in Bergen Norway from June 15 to June 19 1987 The ARW was organized on behalf of the Committee on Algorithms COAL of the Mathematical Programming Society MPS Co directors were Jan Telgen Van Dien Co Organisatie Utrecht The Netherlands and Roger J B Wets The University of California at Davis USA 43 participants from 11 countries attended the ARW The workshop was organized such that each day started with a minute keynote presentation followed by a 45 minute plenary discussion The first part of this book contains the contributions of the five keynote speakers The plenary discussions were taped and the transcripts given to the keynote speakers They have treated the transcripts differently some by working the discussions into their papers others by adding a section which sums up the discussions The plenary discussions were very interesting and stimulating due to active participation of the audience The five keynote speakers were asked to view the topic of the workshop the interaction between algorithms and model formulations from different perspectives On the first day of the workshop Professor Alexander H G Rinnooy Kan Erasmus University Rotterdam The Netherlands put the theme into a larger context by his talk Mathematical programming as an intellectual activity This is an article of importance to any mathematical programmer who is interested in his field s history and present state

Superconducting Electronics Harold Weinstock, Martin Nisenoff, 2013-06-29 The genesis of the NATO Advanced Study Institute ASI upon which this volume is based occurred during the summer of 1986 when we came to the realization that there had been significant progress during the early 1980 s in the field of superconducting electronics and in applications of this technology Despite this progress there was a perception among many engineers and scientists that with the possible exception of a limited number of esoteric fundamental studies and applications e g the Josephson voltage standard or the SQUID magnetometer there was no significant future for electronic systems incorporating superconducting elements One of the major reasons for this perception was the aversion to handling liquid helium or including a closed cycle helium liquefier In addition many critics felt that IBM s cancellation of its superconducting computer project in 1983 was proof that superconductors could not possibly compete with semiconductors in high speed signal processing From our perspective the need for liquid helium was outweighed by improved performance i e higher speed lower noise greater sensitivity and much lower power dissipation For many commercial medical scientific and military applications these attributes can lead to either enhanced capability e g compact real time signal processing or measurements that cannot be made using any other technology e g SQUID magnetometry to detect neuromagnetic activity

Picture Archiving and

Communication Systems (PACS) in Medicine K.S. Chuang,H.K. Huang,O. Ratib,A.R. Bakker,G. Witte,2013-06-29 This volume contains the proceedings of the NATO Advanced Study Institute on Picture Archiving and Communication Systems PACS in Medicine held in Evian France October 14 26 1990 The program committee of the institute consisted of H K Huang Director Osman Ratib Albert Bakker and Gerd Witte This institute brought together approximately 90 participants from 15 countries These proceedings are the accumulation of eight years of research and development results in PACS by various dedicated groups throughout the world The purpose of this institute was to review the most recent technology available for PACS and some clinical results The readers should notice the remarkable advances in this field by comparing the contents in these proceedings with those in a previous institute on Pictorial Information Systems in Medicine held August 27 September 7 1984 in Braunlage Harz Federal Republic of Germany and published as Vol 19 in this series The institute was organized according to four categories PACS components and system integration PACS and related research in various countries and manufacturing companies clinical experience and research support and participants scientific communications In PACS components we included image acquisition workstations data storage and networking In system integration topics on interfaces between Hospital Information System HIS Radiology Information System RIS and PACS clinical reports the ACR NEMA standard databases reliability and system integration were discussed This lecture series emphasized the technical detail and how to aspects

Mathematical Models for Decision Support Harvey J. Greenberg,Gautam Mitra,Freerk A. Lootsma,Marcel J. Rijckaert,Hans J. Zimmermann,2012-12-06 It is quite an onerous task to edit the proceedings of a two week long institute with learned contributors from many parts of the world All the same the editorial team has found the process of refereeing and reviewing the contributions worthwhile and completing the volume has proven to be a satisfying task In setting up the institute we had considered models and methods taken from a number of different disciplines As a result the whole institute preparing for it attending it and editing the proceedings proved to be an intense learning experience for us Here I speak on behalf of the committee and the editorial team By the time the institute took place the papers were delivered and the delegates exchanged their views the structure of the topics covered and their relative positioning appeared in a different light In editing the volume I felt compelled to introduce a new structure in grouping the papers The contents of this volume are organised in eight main sections set out below

- 1 Abstracts
- 2 Review Paper
- 3 Models with Multiple Criteria and Single or Multiple Decision Makers
- 4 Use of Optimisation Models as Decision Support Tools
- 5 Role of Information Systems in Decision Making Database and Model Management Issues
- 6 Methods of Artificial Intelligence in Decision Making Intelligent Knowledge Based Systems
- 7 Representation of Uncertainty in Mathematical Models and Knowledge Based Systems
- 8 Mathematical Basis for Constructing Models and Model Validation

Advances in Object-Oriented Database Systems Asuman Dogac,M.Tamer Özsu,Alexandros Biliris,Timos Sellis,2013-11-09 Object oriented database management systems OODBMSs have generated significant excitement in the database community in the last

decade This interest stems from a real need for data management support for what are called advanced application areas that are not well served by relational technology The case for object oriented technology has been made on three fronts First is the data modeling requirements of the new applications Some of the more important shortcomings of the relational systems in meeting the requirements of these applications include 1 Relational systems deal with a single object type a relation A relation is used to model different real world objects but the semantics of this association is not part of the database Furthermore the attributes of a relation may come only from simple and fixed data type domains numeric character and sometimes date types Advanced applications require explicit storage and manipulation of more abstract types e g images design documents and the ability for the users to define their own application specific types Therefore a rich type system supporting user defined abstract types is required 2 The relational model structures data in a relatively simple and flat manner Non traditional applications require more complex object structures with nested objects e g a vehicle object containing an engine object

Fundamentals in Handwriting Recognition Sebastiano Impedovo,2012-12-06 For many years researchers in the field of Handwriting Recognition were considered to be working in an area of minor importance in Pattern Recognition They had only the possibility to present the results of their research at general conferences such as the ICPR or publish their papers in journals such as some of the IEEE series or PR together with many other papers generally oriented to the more promising areas of Pattern Recognition The series of International Workshops on Frontiers in Handwriting Recognition and International Conferences on Document Analysis and Recognition together with some special issues of several journals are now fulfilling the expectations of many researchers who have been attracted to this area and are involving many academic institutions and industrial companies But in order to facilitate the introduction of young researchers into the field and give them both theoretically and practically powerful tools it is now time that some high level teaching schools in handwriting recognition be held also in order to unite the foundations of the field Therefore it was my pleasure to organize the NATO Advanced Study Institute on Fundamentals in Handwriting Recognition that had its origin in many exchanges among the most important specialists in the field during the International Workshops on Frontiers in Handwriting Recognition

Shape in Picture Ying-Lie O,Alexander Toet,David Foster,Henk J.A.M. Heijmans,Peter Meer,2013-04-17 The fields of image analysis computer vision and artificial intelligence all make use of descriptions of shape in grey level images Most existing algorithms for the automatic recognition and classification of particular shapes have been developed for specific purposes with the result that these methods are often restricted in their application The use of advanced and theoretically well founded mathematical methods should lead to the construction of robust shape descriptors having more general application Shape description can be regarded as a meeting point of vision research mathematics computing science and the application fields of image analysis computer vision and artificial intelligence The NATO Advanced Research Workshop Shape in Picture was organised with a twofold objective first it should provide all participants with an overview of

relevant developments in these different disciplines second it should stimulate researchers to exchange original results and ideas across the boundaries of these disciplines This book comprises a widely drawn selection of papers presented at the workshop and many contributions have been revised to reflect further progress in the field The focus of this collection is on mathematical approaches to the construction of shape descriptions from grey level images The book is divided into five parts each devoted to a different discipline Each part contains papers that have tutorial sections these are intended to assist the reader in becoming acquainted with the variety of approaches to the problem

Speech Recognition and Coding Antonio J. Rubio Ayuso, Juan M. Lopez Soler, 2012-12-06 Based on a NATO Advanced Study Institute held in 1993 this book addresses recent advances in automatic speech recognition and speech coding The book contains contributions by many of the most outstanding researchers from the best laboratories worldwide in the field The contributions have been grouped into five parts on acoustic modeling language modeling speech processing analysis and synthesis speech coding and vector quantization and neural nets For each of these topics some of the best known researchers were invited to give a lecture In addition to these lectures the topics were complemented with discussions and presentations of the work of those attending Altogether the reader is given a wide perspective on recent advances in the field and will be able to see the trends for future work

Automating Instructional Design, Development, and Delivery Robert D. Tennyson, 2012-12-06 This workshop was organized and presented by an international group of scholars interested in the advancement of automating instructional design Although the principal leader for this effort was myself each of the committee members devoted equally in time and effort in the total preparation and conducting of the workshop Members of the organizing committee included Dr Klaus Breuer from disce and the University of Paderborn Germany Dr Begofia Gros from the University of Barcelona and Dr Daniel Muraida and Dr Michael Spector from the Armstrong Laboratory USA Dr Gros participated as the co director of the workshop and was directly responsible for the preparation and operation of the workshop in Sitges Spain The workshop was held in Sitges a short distance from Barcelona March 23 27 1992 Because of preparations at that time for the 1992 summer Olympic Games in Barcelona the workshop was moved to a more convenient location The theme of the workshop included three main topics planning production and implementation Dr Peter Goodyear from the Lancaster University England presented the invited keynote address During the four day workshop 14 papers were presented and discussed Following each of the three topic areas Drs Gros and Breuer led discussions critiquing the ideas presented

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