



Syntactic and Structural Pattern Recognition

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Gaynor E. Taylor



Syntactic And Structural Pattern Recognition Nato Asi Series F Computer And Systems Sciences Vol 45:

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 1960s 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.

Methodologies for Intelligent Systems Zbigniew Raas, Maria Zemankova, 1991-09-25 This volume contains the papers selected for presentation at the Sixth International Symposium on Methodologies for Intelligent Systems held in Charlotte North Carolina in October 1991. The symposium was hosted by UNC Charlotte and sponsored by IBM Charlotte, ORNL, CESAR and UNC Charlotte. The papers discuss topics in the following major areas: Approximate reasoning, Expert systems, Intelligent databases, Knowledge representation, Learning and adaptive systems, Logic for artificial intelligence. The goal of the symposium was to provide a platform for a useful exchange and cross fertilization of ideas between theoreticians and practitioners in these areas.

Tools and Algorithms for the Construction and Analysis of Systems Ed Brinksma, 1997-03-20 This book constitutes the refereed proceedings of the Third International Workshop on Tools and Algorithms for the Construction and Analysis of Systems (TACAS 97) held in Enschede, The Netherlands in April 1997. The book presents 20 revised full papers and 5 tool demonstrations carefully selected out of 54 submissions. Also included are two extended abstracts and a full paper corresponding to invited talks. The papers are organized in topical sections on: space reduction techniques, tool demonstrations, logical techniques, verification, support specification and analysis, and theorem proving, model checking and applications.

Exploiting Mental Imagery with Computers in Mathematics Education Rosamund Sutherland, John Mason, 2012-12-06 The advent of fast and sophisticated computer graphics has brought dynamic and interactive images under the control of professional mathematicians and mathematics teachers. This volume in the NATO Special Programme on Advanced Educational Technology takes a comprehensive and critical look at how the computer can

support the use of visual images in mathematical problem solving The contributions are written by researchers and teachers from a variety of disciplines including computer science mathematics mathematics education psychology and design Some focus on the use of external visual images and others on the development of individual mental imagery The book is the first collected volume in a research area that is developing rapidly and the authors pose some challenging new questions

Cognitive Tools for Learning Piet A.M. Kommers, David H. Jonassen, J. Terry Mayes, 2012-12-06 Hypermedia technology needs a creative approach from the outset in the design of software to facilitate human thinking and learning This book opens a discussion of the potential of hypermedia and related approaches to provide open exploratory learning environments The papers in the book are based on contributions to a NATO Advanced Research Workshop held in July 1990 and are grouped into six sections Semantic networking as cognitive tools Expert systems as cognitive tools Hypertext as cognitive tools Collaborative communication tools Microworlds context dependent cognitive tools Implementing cognitive tools The book will be valuable for those who design implement and evaluate learning programs and who seek to escape from rigid tactics like programmed instruction and behavioristic approaches The book presents principles for exploratory systems that go beyond existing metaphors of instruction and provokes the reader to think in a new way about the cognitive level of human computer interaction

Logic, Algebra, and Computation Friedrich L. Bauer, 2012-12-06 The Marktoberdorf Summer Schools on Informatics were started in 1970 with the intention to convene every second or third year a group of top researchers in computing devoted to preach their most recent results to an elite of advanced students young and most promising people and prepared to stand their questions criticism and suggestions The themes of these Advanced Study Institutes under the sponsorship of the NATO Scientific Affairs Division varied slightly over the years oscillating more or less around Programming Methodology as the following list shows 1970 Data Structures and Computer Systems 1971 Program Structures and Fundamental Concepts of Programming 1973 Structured Programming and Programmed Structures 1975 Language Hierarchies and Interfaces 1978 Program Construction 1981 Theoretical Foundations of Programming Methodology 1984 Control Flow and Data Flow Concepts of Distributed Programming 1986 Logic of Programming and Calculi of Discrete Design 1988 Constructive Methods in Computing Science 1989 Logic Algebra and Computation Logic Algebra and Computation is the theme of the summer school to which this volume is devoted It is the tenth in succession but it is also the first in a new series the blue series that is intended to alternate in future with the traditional the red series arrangement in fact the tenth summer school in the red series with the title Programming and Mathematical Method held in 1990 was the subject of celebrating both its serial number and the twenty years of Marktoberdorf Summer Schools altogether

Sensor-Based Robots: Algorithms and Architectures C.S. George Lee, 2012-12-06 Most industrial robots today have little or no sensory capability Feedback is limited to information about joint positions combined with a few interlock and timing signals These robots can function only in an environment where the objects to be manipulated are

precisely located in the proper position for the robot to grasp i.e. in a structured environment For many present industrial applications this level of performance has been adequate With the increasing demand for high performance sensor based robot manipulators in assembly tasks meeting this demand and challenge can only be achieved through the consideration of 1 efficient acquisition and processing of internal/external sensory information 2 utilization and integration of sensory information from various sensors tactile force and vision to acquire knowledge in a changing environment 3 exploitation of inherent robotic parallel algorithms and efficient VLSI architectures for robotic computations and finally 4 system integration into a working and functioning robotic system This is the intent of the Workshop on Sensor Based Robots Algorithms and Architectures to study the fundamental research issues and problems associated with sensor based robot manipulators and to propose approaches and solutions from various viewpoints in improving present day robot manipulators in the areas of sensor fusion and integration sensory information processing and parallel algorithms and architectures for robotic computations

Traditional and Non-Traditional Robotic Sensors Thomas C. Henderson, 2012-12-06 This book contains the written record of the NATO Advanced Research Workshop on Traditional and Non Traditional Robotic Sensors held in the Hotel Villa del Mare Maratea Italy August 28 September 1 1989 This workshop was organized under the auspices of the NATO Special Program on Sensory Systems for Robotic Control Professor Frans Groen from the University of Amsterdam and Dr Gert Hirzinger from the German Aerospace Research Establishment DLR served as members of the organizing committee for this workshop Research in the area of robotic sensors is necessary in order to support a wide range of applications including industrial automation space robotics image analysis microelectronics and intelligent sensors This workshop focused on the role of traditional and non traditional sensors in robotics In particular the following three topics were explored Sensor development and technology Multisensor integration techniques Application area requirements which motivate sensor development directions This workshop brought together experts from NATO countries to discuss recent developments in these three areas Many new directions or new directions on old problems were proposed Existing sensors should be pushed into new application domains such as medical robotics and space robotics

Numerical Linear Algebra, Digital Signal Processing and Parallel Algorithms Gene H. Golub, Paul Van Dooren, 2012-12-06 Numerical linear algebra digital signal processing and parallel algorithms are three disciplines with a great deal of activity in the last few years The interaction between them has been growing to a level that merits an Advanced Study Institute dedicated to the three areas together This volume gives an account of the main results in this interdisciplinary field The following topics emerged as major themes of the meeting Singular value and eigenvalue decompositions including applications Toeplitz matrices including special algorithms and architectures Recursive least squares in linear algebra digital signal processing and control Updating and downdating techniques in linear algebra and signal processing Stability and sensitivity analysis of special recursive least squares problems Special architectures for linear algebra and signal processing This book contains tutorials on these topics

given by leading scientists in each of the three areas A considerable number of new research results are presented in contributed papers The tutorials and papers will be of value to anyone interested in the three disciplines

Combinatorial Optimization Mustafa Akgül, Horst W. Hamacher, Süleyman Tüfekci, 2012-12-06 There have been significant developments in the theory and practice of combinatorial optimization in the last 15 years This progress has been evidenced by a continuously increasing number of international and local conferences books and papers in this area This book is also another contribution to this burgeoning area of operations research and optimization This volume contains the contributions of the participants of the recent NATO Advanced Study Institute New Frontiers in the Theory and Practice of Combinatorial Optimization which was held at the campus of Bilkent University in Ankara Turkey July 16-29 1990 In this conference we brought many prominent researchers and young and promising scientists together to discuss current and future trends in the theory and practice of combinatorial optimization The Bilkent campus was an excellent environment for such an undertaking Being outside of Ankara the capital of Turkey Bilkent University gave the participants a great opportunity for exchanging ideas and discussing new theories and applications without much distraction One of the primary goals of NATO ASIs is to bring together a group of scientists and research scientists primarily from the NATO countries for the dissemination of advanced scientific knowledge and the promotion of international contacts among scientists We believe that we accomplished this mission very successfully by bringing together 15 prominent lecturers and 45 promising young scientists from 12 countries in a university environment for 14 days of intense lectures presentations and discussions

Computer Integrated Production Systems and Organizations Felix Schmid, Stephen Evans, Andrew W.S. Ainger, Robert J. Grieve, 2012-12-06 The Background to the Institute The NATO Advanced Study Institute ASI People and Computers Applying an Anthropocentric Approach to Integrated Production Systems and Organisations came about after the distribution of a NATO fact sheet to Brunel University which described the funding of ASIs The embryonic director of the ASI brought this opportunity to the attention of the group of people some at Brunel and some from outside who were together responsible for the teaching and management of the course in Computer Integrated Manufacturing CIM in Brunel's Department of Manufacturing and Engineering Systems This course had been conceived in 1986 and was envisaged as a vehicle for teaching manufacturing engineering students the technology of information integration through project work While the original idea of the course had also included the organisational aspects of CIM the human factors questions were not considered This shortcoming was recognised and the trial run of the course in 1988 contained some lectures on people issues The course team were therefore well prepared and keen to explore the People Organisation and Technology POT aspects of computer integration as applied to industrial production A context was proposed which would allow the inclusion of people from many different backgrounds and which would open up time and space for reflection The proposal to organise a NATO ASI was therefore welcomed by all concerned

Multimedia Interface Design in Education Alistair D.N. Edwards, Simon Holland, 2012-12-06 What the

book is about This book is about the theory and practice of the use of multimedia multimodal interfaces for learning Yet it is not about technology as such at least in the sense that the authors do not subscribe to the idea that one should do something just because it is technologically possible Multimedia has been adopted in some commercial quarters to mean little more than a computer with some form of audio or more usually video attachment This is a trend which ought to be resisted as exemplified by the material in this book Rather than merely using a new technology because it is there there is a need to examine how people learn and communicate and to study diverse ways in which computers can harness text sounds speech images moving pictures gestures touch etc to promote effective human learning We need to identify which media in which combinations using what mappings of domain to representation are appropriate for which educational purposes The word multimodal in the title underlies this perspective The intention is to focus attention less on the technology and more on how to structure different kinds of information via different sensory channels in order to yield the best possible quality of communication and educational interaction Though the reader should refer to Chapter 1 for a discussion of the use of the word multimodal Historically there was little problem

Supercomputing Janusz S. Kowalik, 2012-12-06 Supercomputing is an important science and technology that enables the scientist or the engineer to simulate numerically very complex physical phenomena related to large scale scientific industrial and military applications It has made considerable progress since the first NATO Workshop on High Speed Computation in 1983 Vol 7 of the same series This book is a collection of papers presented at the NATO Advanced Research Workshop held in Trondheim Norway in June 1989 It presents key research issues related to hardware systems architecture and performance compilers and programming tools user environments and visualization algorithms and applications Contributions include critical evaluations of the state of the art and many original research results

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

Kinematic and Dynamic Issues in Sensor Based Control Gaynor E. Taylor, 2012-12-06 This volume contains a series of papers originally presented at a NATO Advanced Research Workshop ARW entitled Kinematic and Dynamic Issues in Sensor Based Control The workshop one of a series concerned with topics in sensory robotics took place at Il Ciocco Castelveccchio di Pascoli Italy in October 1987 Attendance was by invitation only and the majority of participants are recognised leaders in their field some from the robotics community others with a more general control background The main topics of interest were grouped into eight sessions represented by the eight main sections of the book 1 Modelling Techniques General Kinematic and Dynamic Issues 2 Sensor Signal Processing 3 Force Control 4 Further Control Topics 5 Vision Based Control 6 Further Kinematic and Dynamic Issues 7 Computational Issues 8 Learning from Sensor Input Also included are brief reports of the roundtable discussions which sought to determine important future directions of research in this area My thanks to all those who made the workshop possible The NATO Scientific Affairs Division and the panel on Sensory Systems for Robotic Control who provided most of the financial support the workshop committee Dr B Espiau Dr P Coiffet Dr P

Hypermedia Courseware: Structures of Communication and Intelligent Help Armando Oliveira, 2012-12-06 This book is based on the NATO Advanced Research Workshop on Structures of Communication and Intelligent Help for Hypermedia Courseware which was held at Espinho Portugal April 19-24 1990 The texts included here should not be regarded as untouched proceedings of this meeting but as the result of the reflections which took place there and which led the authors to revise their texts in that light The Espinho ARW was itself to some extent the continuation of the ARW on Designing Hypermedia Hypertext for Learning held in Germany in 1989 D H Jonassen H Mandl eds Designing Hypermedia for Learning NATO ASI Series F Vol 67 Springer 1990 At that meeting an essential conclusion became apparent the importance and interest of hypermedia products as potential pedagogical tools It was then already predictable that the enormous evolution of hypermedia would lead to its association with multimedia technologies namely for the production of courseware Parallel to the improvement of the didactic potential and quality which results from this association it nevertheless brought along a natural array of difficulties some old some new in the conception and use of hypermedia products Today there is agreement that one of the most promising technological advances for education is represented by the use of text sound and images based on nonlinear techniques of information handling and searching of hypermedia architectures The problem of hypermedia is fundamentally one of communication this leads to an attempt at defining a language for hypermedia

Multiple Criteria Decision Making and Risk Analysis Using Microcomputers Birsén Karpak, Stanley Zionts, 2013-06-29 Roughly nine years ago the two editors met for the first time in Amsterdam the Netherlands at the EURO III meeting organized by the Association of European Operational Research Societies there As a result of our initial meeting the two of us planned and carried out a number of activities in the multiple criteria decision making area much of it supported by the North Atlantic Treaty Organization NATO The latest of these activities was a NATO

Advanced Study Institute ASI on multiple criteria decision making and risk analysis using microcomputers The institute was held in Tarabya Istanbul TURKEY on June 28 July 8 1987 We received over 100 applications from professors and a few graduate students in 13 countries Roughly half of them were able to participate The ASI was a great success Substantial knowledge transfer and learning took place In addition to the planned presentations we had several panels and round table discussions Though we had planned these in advance we implemented them to fit the occasion and also organized a few special sessions on site to respond to participants interests

International Books in Print, 1995 Barbara Hopkinson,[Anonymus AC01401231],1995 Grammatical Inference: Learning Syntax from Sentences Laurent Miclet,Colin de la Higuera,1996-09-16 This book constitutes the refereed proceedings of the Third International Colloquium on Grammatical Inference ICGI 96 held in Montpellier France in September 1996 The 25 revised full papers contained in the book together with two invited key papers by Magerman and Knuutila were carefully selected for presentation at the conference The papers are organized in sections on algebraic methods and algorithms natural language and pattern recognition inference and stochastic models incremental methods and inductive logic programming and operational issues

Mathematical Problem Solving and New Information Technologies Joao P. Ponte,Joao F. Matos,Jose M. Matos,Domingos Fernandes,2013-06-29 A strong and fluent competency in mathematics is a necessary condition for scientific technological and economic progress However it is widely recognized that problem solving reasoning and thinking processes are critical areas in which students performance lags far behind what should be expected and desired Mathematics is indeed an important subject but is also important to be able to use it in extra mathematical contexts Thinking strictly in terms of mathematics or thinking in terms of its relations with the real world involve quite different processes and issues This book includes the revised papers presented at the NATO ARW Information Technology and Mathematical Problem Solving Research held in April 1991 in Viana do Castelo Portugal which focused on the implications of computerized learning environments and cognitive psychology research for these mathematical activities In recent years several committees professional associations and distinguished individuals throughout the world have put forward proposals to renew mathematics curricula all emphasizing the importance of problem solving In order to be successful these reforming intentions require a theory driven research base But mathematics problem solving may be considered a chaotic field in which progress has been quite slow

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