





# Syntactic Pattern Recognition And Applications

**Gabriel Ferrate, Theo Pavlidis, Alberto  
Sanfeliu, Horst Bunke**





## **Syntactic Pattern Recognition And Applications:**

*Syntactic Pattern Recognition, Applications* K.S. Fu, 2012-12-06 The many different mathematical techniques used to solve pattern recognition problems may be grouped into two general approaches the decision theoretic or discriminant approach and the syntactic or structural approach In the decision theoretic approach a set of characteristic measurements called features are extracted from the patterns Each pattern is represented by a feature vector and the recognition of each pattern is usually made by partitioning the feature space Applications of decision theoretic approach include character recognition medical diagnosis remote sensing reliability and socio economics A relatively new approach is the syntactic approach In the syntactic approach each pattern is expressed in terms of a composition of its components The recognition of a pattern is usually made by analyzing the pattern structure according to a given set of rules Earlier applications of the syntactic approach include chromosome classification English character recognition and identification of bubble and spark chamber events The purpose of this monograph is to provide a summary of the major recent applications of syntactic pattern recognition After a brief introduction of syntactic pattern recognition in Chapter 1 the nine main chapters Chapters 2-10 can be divided into three parts The first three chapters concern with the analysis of waveforms using syntactic methods Specific application examples include peak detection and interpretation of electro cardiograms and the recognition of speech patterns The next five chapters deal with the syntactic recognition of two dimensional pictorial patterns

**Syntactic Pattern Recognition and Applications** K. S Fu, 1982      **Syntactic Pattern Recognition, Applications** K.S. Fu, 2011-12-27 The many different mathematical techniques used to solve pattern recognition problems may be grouped into two general approaches the decision theoretic or discriminant approach and the syntactic or structural approach In the decision theoretic approach a set of characteristic measurements called features are extracted from the patterns Each pattern is represented by a feature vector and the recognition of each pattern is usually made by partitioning the feature space Applications of decision theoretic approach include character recognition medical diagnosis remote sensing reliability and socio economics A relatively new approach is the syntactic approach In the syntactic approach each pattern is expressed in terms of a composition of its components The recognition of a pattern is usually made by analyzing the pattern structure according to a given set of rules Earlier applications of the syntactic approach include chromosome classification English character recognition and identification of bubble and spark chamber events The purpose of this monograph is to provide a summary of the major recent applications of syntactic pattern recognition After a brief introduction of syntactic pattern recognition in Chapter 1 the nine main chapters Chapters 2-10 can be divided into three parts The first three chapters concern with the analysis of waveforms using syntactic methods Specific application examples include peak detection and interpretation of electro cardiograms and the recognition of speech patterns The next five chapters deal with the syntactic recognition of two dimensional pictorial patterns

**Syntactic And Structural Pattern Recognition - Theory And Applications** Horst



Bunke,Alberto Sanfeliu,1990-01-01 This book is currently the only one on this subject containing both introductory material and advanced recent research results It presents at one end fundamental concepts and notations developed in syntactic and structural pattern recognition and at the other reports on the current state of the art with respect to both methodology and applications In particular it includes artificial intelligence related techniques which are likely to become very important in future pattern recognition The book consists of individual chapters written by different authors The chapters are grouped into broader subject areas like Syntactic Representation and Parsing Structural Representation and Matching Learning etc Each chapter is a self contained presentation of one particular topic In order to keep the original flavor of each contribution no efforts were undertaken to unify the different chapters with respect to notation Naturally the self containedness of the individual chapters results in some redundancy However we believe that this handicap is compensated by the fact that each contribution can be read individually without prior study of the preceding chapters A unification of the spectrum of material covered by the individual chapters is provided by the subject and author index included at the end of the book

**Applications of Pattern Recognition** King-Sun Fu,2019-07-22 This monograph is intended to cover several major applications of pattern recognition After a brief introduction to pattern recognition in Chapter 1 the two major approaches statistical approach and syntactic approach are reviewed in Chapter 2 and 3 respectively Other topics include the application of pattern recognition to seismic wave interpretation to system reliability problems to medical data analysis as well as character and speech recognition

**Syntactic Pattern Recognition** Mariusz Flasiński,2019-03-25 This unique compendium presents the major methods of recognition and learning used in syntactic pattern recognition from the 1960s till 2018 Each method is introduced firstly in a formal way Then it is explained with the help of examples and its algorithms are described in a pseudocode The survey of the applications contains more than 1 000 sources published since the 1960s The open problems in the field the challenges and the determinants of the future development of syntactic pattern recognition are discussed This must have volume provides a good read and serves as an excellent source of reference materials for researchers academics and postgraduate students in the fields of pattern recognition machine perception computer vision and artificial intelligence

Pattern Recognition J.P. Marques de Sá,2012-12-06 Pattern recognition currently comprises a vast body of methods supporting the development of numerous applications in many different areas of activity The generally recognized relevance of pattern recognition methods and techniques lies for the most part in the general trend of intelligent task emulation which has definitely pervaded our daily life Robot assisted manufacture medical diagnostic systems forecast of economic variables exploration of Earth's resources and analysis of satellite data are just a few examples of activity fields where this trend applies The pervasiveness of pattern recognition has boosted the number of task specific methodologies and enriched the number of links with other disciplines As counterbalance to this dispersive tendency there have been more recently new theoretical developments that are bridging together many of the classical pattern recognition methods and



presenting a new perspective of their links and inner workings This book has its origin in an introductory course on pattern recognition taught at the Electrical and Computer Engineering Department Oporto University From the initial core of this course the book grew with the intent of presenting a comprehensive and articulated view of pattern recognition methods combined with the intent of clarifying practical issues with the aid of examples and applications to real life data The book is primarily addressed to undergraduate and graduate students attending pattern recognition courses of engineering and computer science curricula

**Handbook of Pattern Recognition and Computer Vision** C. H. Chen,L. F. Pau,P. S. Wang,1993-08 The book provides an up to date and authoritative treatment of pattern recognition and computer vision with chapters written by leaders in the field On the basic methods in pattern recognition and computer vision topics range from statistical pattern recognition to array grammars to projective geometry to skeletonization and shape and texture measures

**BOOK JACKET** *Advances In Structural And Syntactic Pattern Recognition - Proceedings Of The International Workshop*

Horst Bunke,1993-02-23 Pattern recognition is an active area of research with many applications some of which have reached commercial maturity Structural and syntactic methods are very powerful They are based on symbolic data structures together with matching parsing and reasoning procedures that are able to infer interpretations of complex input patterns

This book gives an overview of the latest developments and achievements in the field *An Application of Syntactic Pattern Recognition to Waveform Analysis* Sharleen J. Rucker,1987 *Digital Pattern Recognition* K. S. Fu,2013-03-07

Since its publication in 1976 the original volume has been warmly received We have decided to put out this updated paperback edition so that the book can be more accessible to students This paperback edition is essentially the same as the original hardcover volume except for the addition of a new chapter Chapter 7 which reviews the recent advances in pattern recognition and image processing Because of the limitations of length we can only report the highlights and point the readers to the literature A few typographical errors in the original edition were corrected We are grateful to the National Science

Foundation and the Office of Naval Research for supporting the editing of this book as well as the work described in Chapter 4 and a part of Chapter 7 West Lafayette Indiana March 1980 K S Fu Preface to the First Edition During the past fifteen

years there has been a considerable growth of interest in problems of pattern recognition Contributions to the blossom of this area have come from many disciplines including statistics psychology linguistics computer science biology taxonomy switching theory communication theory control theory and operations research Many different approaches have been proposed and a number of books have been published Most books published so far deal with the decision theoretic or statistical approach or the syntactic or linguistic is still far from its maturity many approach

*PATTERN RECOGNITION*

Syed Thouheed Ahmed,Syed Muzamil Basha,Sajeev Ram Arumugam,Mallikarjun M Kodabagi,2021-08-01 This book covers the primary and supportive topics on pattern recognition with respect to beginners understand ability The aspects of pattern recognition is value added with an introductory of machine learning terminologies This book covers the aspects of pattern



validation recognition computation and processing The initial aspects such as data representation and feature extraction is reported with supportive topics such as computational algorithms and decision trees This text book covers the aspects as reported Part I In this part the initial foundation aspects of pattern recognition is discussed with reference to probabilities role in influencing a pattern occurrence pattern extraction and properties Introduction Definition of Pattern Recognition Applications Datasets for Pattern Recognition Different paradigms for Pattern Recognition Introduction to probability events random variables Joint distributions and densities moments Estimation minimum risk estimators problems Representation Data structures for Pattern Recognition Representation of clusters proximity measures size of patterns Abstraction of Data set Feature extraction Feature selection Evaluation Part II In Part II of the text the mathematical representation and computation algorithms for extracting and evaluating patterns are discussed The basic algorithms of machine learning classifiers with Nearest neighbor and Naive Bayes is reported with value added validation process using decision trees Computational Algorithms Nearest neighbor algorithm variants of NN algorithms use of NN for transaction databases efficient algorithms Data reduction prototype selection Bayes theorem minimum error rate classifier estimation of probabilities estimation of probabilities comparison with NNC Naive Bayes classifier Bayesian belief network Decision Trees Introduction Decision Tree for Pattern Recognition Construction of Decision Tree Splitting at the nodes Over fitting Pruning Examples

**Structural, Syntactic, and Statistical Pattern Recognition** Niels da Vitoria Lobo, Takis Kasparis, Michael Georgiopoulos, Fabio Roli, James Kwok, Georgios C. Anagnostopoulos, Marco Loog, 2008-12-02 This volume in the Springer Lecture Notes in Computer Science LNCS series contains 98 papers presented at the S SSPR 2008 workshops S SSPR 2008 was the sixth time that the SPR and SSPR workshops organized by Technical Committees TC1 and TC2 of the International Association for Pattern Recognition IAPR were held as joint workshops S SSPR 2008 was held in Orlando Florida the family entertainment capital of the world on the beautiful campus of the University of Central Florida one of the up and coming metropolitan universities in the USA S SSPR 2008 was held during December 4-6 2008 only a few days before the 19th International Conference on Pattern Recognition ICPR2008 which was held in Tampa only two hours away from Orlando thus giving the opportunity of both conferences to attendees to enjoy the many attractions offered by two neighboring cities in the state of Florida SPR 2008 and SSPR 2008 received a total of 175 paper submissions from many different countries around the world thus giving the workshop an international clout as was the case for past workshops This volume contains 98 accepted papers 56 for oral presentations and 42 for poster presentations In addition to parallel oral sessions for SPR and SSPR there was also one joint oral session with papers of interest to both the SPR and SSPR communities A recent trend that has emerged in the pattern recognition and machine learning research communities is the study of graph based methods that integrate statistical and structural approaches

*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.

**Structural, Syntactic, and Statistical Pattern Recognition** Georgy Gimel'farb, Edwin Hancock, Atsushi Imiya, Arjan Kuijper, Mineichi Kudo, Shinichiro Omachi, Terry Windeatt, Keiji Yamada, 2012-10-22. This volume constitutes the refereed proceedings of the Joint IAPR International Workshops on Structural and Syntactic Pattern Recognition SSPR 2012 and Statistical Techniques in Pattern Recognition SPR 2012 held in Hiroshima, Japan, in November 2012, as a satellite event of the 21st International Conference on Pattern Recognition ICPR 2012. The 80 revised full papers presented together with 1 invited paper and the Pierre Devijver award lecture were carefully reviewed and selected from more than 120 initial submissions. The papers are organized in topical sections on structural, syntactical, and statistical pattern recognition; graph and tree methods; randomized methods; and image analysis; kernel methods in structural and syntactical pattern recognition; applications of structural and syntactical pattern recognition; clustering; learning; kernel methods in statistical pattern recognition; kernel methods in statistical pattern recognition; as well as applications of structural, syntactical, and statistical methods.

*Progress in Pattern Classification and Machine Learning* Paweł Trajdos, Robert Burduk, 2025-07-28. This book highlights recent research on computer recognition systems, one of the most promising directions in artificial intelligence. Offering the comprehensive study on this field to date, it gathers 11 carefully selected articles contributed by experts on pattern recognition. The accepted papers address current computer science and computer systems related technological challenges and solutions, as well as many practical applications, areas of pattern recognition, and machine learning results. Presenting recent research on methodology and applications, the book offers a valuable reference tool for scientists whose work involves designing computer pattern recognition systems. Its target audience also includes researchers and students in computer science and artificial intelligence. We believe that this book will be also interesting for practitioners in many fields of computer science and IT applications.



Syntactic Models in Pattern Recognition and Applications K. S. Fu, PURDUE UNIV LAFAYETTE IN SCHOOL OF ELECTRICAL ENGINEERING., 1980      **Handbook of Pattern Recognition and Image Processing** Tzay Y. Young, King Sun Fu, 1986-04-28 This practical handbook provides a broad overview of the major elements of pattern recognition and image processing PRIP Currently the only handbook in the field it is designed as a source of quick answers for those interested in the theoretical development and practical applications of PRIP techniques Twenty years of research development and innovations in applications are documented in this comprehensive work Written by leading researchers in the field chapters deal with statistical and syntactic pattern recognition feature selection and extraction cluster analysis image enhancement and restoration shapes texture and motion computer vision computer systems and architectures for image processing and various industrial and biomedical applications Engineers computer scientists other professionals and students interested in applying PRIP techniques will find the Handbook of Pattern Recognition and Image Processing to be an invaluable reference source      *Pattern Recognition Theory and Application* King Sun Fu, A.B. Whinston, 1977-12-31 Research in the field of pattern recognition both in theoretical terms and in the area of application continues to flourish Pattern recognition is a fairly diverse field involving researchers whose primary disciplines spread over at least a half dozen fields Possibly because of the great diversity of backgrounds but a common interest in certain broad areas of application the field has grown so rapidly and yet seems to promise at least a similar growth rate for the future This book is a collection containing some of the papers that were presented at the NATO Advanced Study Institute held in Bandol France September 1975 The main purpose of the institute was to present material which would provide a basic background in the field Thus survey papers covering syntactic methods picture processing classification theory and speech recognition were presented This should have provided the listener and we hope now the reader with an acquaintance with the basic tools a look at some of the applications and an appraisal of how each of the particular topics will evolve A more recent addition to the pattern recognition family is the work in the areas of economics and group choice Since the process of recognizing and interpreting patterns is so fundamental it probably is no surprise when a particular discipline is discovered to be amenable to the already developed techniques      Learning Systems and Pattern Recognition in Industrial Control , 1983



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