

PATTERN
RECOGNITION
USING
NEURAL
NETWORKS

Theory and Algorithms for Engineers and Scientists

CARL G. LOONEY

Pattern Recognition Using Neural Networks Theory And Algorithms For Engineers And Scientists

David Kirk



Pattern Recognition Using Neural Networks Theory And Algorithms For Engineers And Scientists:

Pattern Recognition Using Neural and Functional Networks Vasantha Kalyani David, S. Rajasekaran, 2008-11-20

Biologically inspired computing is different from conventional computing. It has a different feel often the terminology does not sound like it talking about machines. The activities of this computing sound more human than mechanistic as people speak of machines that behave, react, self organize, learn, generalize, remember and even to forget. Much of this technology tries to mimic nature's approach in order to mimic some of nature's capabilities. They have a rigorous mathematical basis and neural networks for example have a statistically valid set on which the network is trained.

Two outlines are suggested as the possible tracks for pattern recognition. They are neural networks and functional networks. Neural Networks many interconnected elements operating in parallel carry out tasks that are not only beyond the scope of conventional processing but also cannot be understood in the same terms. Imaging applications for neural networks seem to be a natural fit. Neural networks love to do pattern recognition. A new approach to pattern recognition using microARTMAP together with wavelet transforms in the context of hand written characters, gestures and signatures have been dealt. The Kohonen Network, Back Propagation Networks and Competitive Hopfield Neural Network have been considered for various applications. Functional networks being a generalized form of Neural Networks where functions are learned rather than weights is compared with Multiple Regression Analysis for some applications and the results are seen to be coincident. New kinds of intelligence can be added to machines and we will have the possibility of learning more about learning. Thus our imaginations and options are being stretched. These new machines will be fault tolerant, intelligent and self programming thus trying to make them smarter. So as to make those who use the techniques even smarter. Chapter 1 is a brief introduction to Neural and Functional networks in the context of Pattern recognition using these disciplines. Chapter 2 gives a review of the architectures relevant to the investigation and the development of these technologies in the past few decades. Retracted VIII Preface Chapter 3 begins with the look at the recognition of handwritten alphabets using the algorithm for ordered list of boundary pixels as well as the Kohonen Self Organizing Map (SOM). Chapter 4 describes the architecture of the MicroARTMAP and its capability.

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 Pattern Recognition Sankar K. Pal, Amita Pal, 2001 This volume containing contributions by experts from all over the world is a collection of 21 articles which present review and research material describing the evolution and recent developments of various pattern recognition methodologies ranging from statistical syntactic linguistic fuzzy set theoretic neural genetic algorithmic and rough set theoretic to hybrid soft computing with significant real life applications In addition the book describes efficient soft machine learning algorithms for data mining and knowledge discovery With a balanced mixture of theory algorithms and applications as well as up to date information and an extensive bibliography *Pattern Recognition From Classical to Modern Approaches* is a very useful resource *Progress in Pattern Recognition, Image Analysis and Applications* Alberto Sanfeliu, José F. Martínez Trinidad, Jesús A. Carrasco Ochoa, 2004-10-15 First of all we want to congratulate two new research communities from Mexico and Brazil that have recently joined the Iberoamerican community and the International Association for Pattern Recognition We believe that the series of congresses that started as the Taller Iberoamericano de Reconocimiento de Patrones TIARP and later became the Iberoamerican Congress on Pattern Recognition CIARP has contributed to these group consolidation efforts We hope that in the near future all the Iberoamerican countries will have their own groups and associations to promote our areas of interest and that these congresses will serve as the forum for scientific research exchange sharing of expertise and new knowledge and establishing contacts that improve cooperation between research groups in pattern recognition and related areas CIARP 2004 9th Iberoamerican Congress on Pattern Recognition was the ninth in a series of pioneering congresses on pattern recognition in the Iberoamerican community As in the previous year CIARP 2004 also included worldwide participation It took place in Puebla Mexico The aim of the congress was to promote and disseminate ongoing research and mathematical methods for pattern recognition image analysis and applications in such diverse areas as computer vision robotics industry health entertainment space exploration telecommunications data mining document analysis and natural language processing and recognition to name a few **Advances in Pattern Recognition** José Francisco Martínez-Trinidad, Jesús Ariel Carrasco-Ochoa, Josef Kittler, 2010-09-13 Annotation This book constitutes the thoroughly refereed proceedings of the Second Mexican Conference on Pattern Recognition MCPR 2010 held in Puebla Mexico in September 2010 The 39 revised papers were carefully reviewed and selected from 89 submissions and are organized in topical sections on computer vision and robotics image processing neural networks and signal processing

pattern recognition data mining natural language and document processing *Combining Pattern Classifiers* Ludmila I. Kuncheva, 2004-08-20 Covering pattern classification methods *Combining Classifiers* Ideas and Methods focuses on the important and widely studied issue of how to combine several classifiers together in order to achieve improved recognition performance It is one of the first books to provide unified coherent and expansive coverage of the topic and as such will be welcomed by those involved in the area With case studies that bring the text alive and demonstrate real world applications it is destined to become essential reading *Adaptive and Natural Computing Algorithms* Andrej Dobnikar, Uroš Lotric, Branko Šter, 2011-03-03 The two volume set LNCS 6593 and 6594 constitutes the refereed proceedings of the 10th International Conference on Adaptive and Natural Computing Algorithms ICANNGA 2010 held in Ljubljana Slovenia in April 2010 The 83 revised full papers presented were carefully reviewed and selected from a total of 144 submissions The first volume includes 42 papers and a plenary lecture and is organized in topical sections on neural networks and evolutionary computation

Advances in Pattern Recognition José Francisco Martínez-Trinidad, Jesús Ariel Carrasco-Ochoa, Josef Kittler, 2010-12-22 Annotation This book constitutes the thoroughly refereed proceedings of the Second Mexican Conference on Pattern Recognition MCPR 2010 held in Pueblly Mexico in September 2010 The 39 revised papers were carefully reviewed and selected from 89 submissions and are organized in topical sections on computer vision and robotics image processing neural networks and signal processing pattern recognition data mining natural language and document processing The Sixth International Symposium on Neural Networks (ISNN 2009) Hongwei Wang, Yi Shen, Tingwen Huang, Zhigang Zeng, 2009-05-03 This volume of *Advances in Soft Computing and Lecture Notes in Computer th Science* vols 5551 5552 and 5553 constitute the Proceedings of the 6 Inter tional Symposium of Neural Networks ISNN 2009 held in Wuhan China during May 26 29 2009 ISNN is a prestigious annual symposium on neural networks with past events held in Dalian 2004 Chongqing 2005 Chengdu 2006 N jing 2007 and Beijing 2008 Over the past few years ISNN has matured into a well established series of international conference on neural networks and their applications to other fields Following this tradition ISNN 2009 provided an a demic forum for the participants to disseminate their new research findings and discuss emerging areas of research Also it created a stimulating environment for the participants to interact and exchange information on future research challenges and opportunities of neural networks and their applications ISNN 2009 received 1 235 submissions from about 2 459 authors in 29 co tries and regions Australia Brazil Canada China Democratic People s Republic of Korea Finland Germany Hong Kong Hungary India Islamic Republic of Iran Japan Jordan Macao Malaysia Mexico Norway Qatar Republic of Korea Singapore Spain Taiwan Thailand Tunisia United Kingdom United States Venezuela Vietnam and Yemen across six continents Asia Europe North America South America Africa and Oceania Based on rigorous reviews by the Program Committee members and reviewers 95 high quality papers were selected to be published in this volume Artificial Neural Networks - ICANN 2001 Georg Dorffner, Horst Bischof, Kurt Hornik, 2003-05-15 This book is based on the papers presented at

the International Conference on Artificial Neural Networks ICANN 2001 from August 21-25 2001 at the Vienna University of Technology Austria The conference is organized by the Austrian Research Institute for Artificial Intelligence in cooperation with the Pattern Recognition and Image Processing Group and the Center for Computational Intelligence at the Vienna University of Technology The ICANN conferences were initiated in 1991 and have become the major European meeting in the field of neural networks From about 300 submitted papers the program committee selected 171 for publication Each paper has been reviewed by three program committee members reviewers We would like to thank all the members of the program committee and the reviewers for their great effort in the reviewing process and helping us to set up a scientific program of high quality In addition we have invited eight speakers three of their papers are also included in the proceedings We would like to thank the European Neural Network Society ENNS for their support We acknowledge the financial support of Austrian Airlines Austrian Science Foundation FWF under the contract SFB 010 Austrian Society for Artificial Intelligence OGAI Bank Austria and the Vienna Convention Bureau We would like to express our sincere thanks to Alexander W. Horn, Karel Hrabý, Franz Leisch, Christian Schittenkopf and Alexander Weingessel The conference and the proceedings would not have been possible without their enormous contribution

Geophysical Applications of Artificial Neural Networks and Fuzzy Logic W. Sandham, M. Leggett, 2013-06-29 The past fifteen years has witnessed an explosive growth in the fundamental research and applications of artificial neural networks ANNs and fuzzy logic FL The main impetus behind this growth has been the ability of such methods to offer solutions not amenable to conventional techniques particularly in application domains involving pattern recognition prediction and control Although the origins of ANNs and FL may be traced back to the 1940s and 1960s respectively the most rapid progress has only been achieved in the last fifteen years This has been due to significant theoretical advances in our understanding of ANNs and FL complemented by major technological developments in high speed computing In geophysics ANNs and FL have enjoyed significant success and are now employed routinely in the following areas amongst others 1 Exploration Seismology a Seismic data processing trace editing first break picking deconvolution and multiple suppression wavelet estimation velocity analysis noise identification reduction statics analysis dataset matching prediction attenuation b AVO analysis c Chimneys d Compression I dimensionality reduction e Shear wave analysis f Interpretation event tracking lithology prediction and well log analysis prospect appraisal hydrocarbon prediction inversion reservoir characterisation quality assessment tomography 2 Earthquake Seismology and Subterranean Nuclear Explosions 3 Mineral Exploration 4 Electromagnetic I Potential Field Exploration a Electromagnetic methods b Potential field methods c Ground penetrating radar d Remote sensing e inversion *Encyclopedia of Artificial Intelligence* Rabuñal Dopico, Juan Ramón, Dorado, Julian, Pazos, Alejandro, 2008-07-31 This book is a comprehensive and in depth reference to the most recent developments in the field covering theoretical developments techniques technologies among others Provided by publisher

Computer Recognition Systems Marek Kurzynski, Edward Puchala, Michał Wozniak, Andrzej Zolnierczyk, 2007-12-13 th

This book contains papers accepted for presentation at the 4 International Conference on Computer Recognition Systems CORES 05 May 22 25 2005 Rydzyna Castle Poland This conference is a continuation of a series of conferences on similar topics KOSYR organized each second year since 1999 by the Chair of Systems and Computer Networks Wroclaw University of Technology An increasing interest to those conferences paid not only by home but also by foreign participants inspired the organizers to transform them into conferences of international range Our expectations that the community of specialists in computer recognizing systems will find CORES 05 a proper form of maintaining the tradition of the former conferences have been confirmed by a large number of submitted papers Alas organizational constraints caused a necessity to narrow the acceptance criteria so that only 100 papers have been finally included into the conference program The area covered by accepted papers is still very large and it shows how vivacious is scientific activity in the domain of computer recognition methods and systems It contains various theoretical approaches to the recognition problem based on mathematical statistics fuzzy sets morphological methods wavelets syntactic methods genetic algorithms artificial neural networks ontological models etc Most attention is still paid to visual objects recognition however acoustic textual and other objects are also considered Among application areas medical problems are in majority recognition of faces speech signals and textual information processing methods being also investigated

Advances in Speech Recognition Noam Shabtai, 2010-08-16 In the last decade further applications of speech processing were developed such as speaker recognition human machine interaction non English speech recognition and non native English speech recognition This book addresses a few of these applications Furthermore major challenges that were typically ignored in previous speech recognition research such as noise and reverberation appear repeatedly in recent papers I would like to sincerely thank the contributing authors for their effort to bring their insights and perspectives on current open questions in speech recognition research

Dynamic Fuzzy Pattern Recognition with Applications to Finance and Engineering Larisa Angstenberger, 2013-03-14 Dynamic Fuzzy Pattern Recognition with Applications to Finance and Engineering focuses on fuzzy clustering methods which have proven to be very powerful in pattern recognition and considers the entire process of dynamic pattern recognition This book sets a general framework for Dynamic Pattern Recognition describing in detail the monitoring process using fuzzy tools and the adaptation process in which the classifiers have to be adapted using the observations of the dynamic process It then focuses on the problem of a changing cluster structure new clusters merging of clusters splitting of clusters and the detection of gradual changes in the cluster structure Finally the book integrates these parts into a complete algorithm for dynamic fuzzy classifier design and classification

Autonomous and Intelligent Systems Mohamed Kamel, Fakhri Karray, Wail Gueaieb, Alaa Khamis, 2011-06-28 This book constitutes the refereed proceedings of the Second International Conference on Autonomous and Intelligent Systems AIS 2011 held in Burnaby BC Canada in June 2011 colocated with the International Conference on Image Analysis and Recognition IACIAR 2011 The 40 revised full papers presented were carefully reviewed and selected

from 62 submissions The papers are organized in topical sections on autonomous and intelligent systems intelligent and advanced control systems intelligent sensing and data analysis human machine interaction and intelligent circuit analysis and signal processing

Artificial Mind System Tetsuya Hoya, 2005-08-25 This book is written from an engineer's perspective of the mind Artificial Mind System exposes the reader to a broad spectrum of interesting areas in general brain science and mind oriented studies In this research monograph a picture of the holistic model of an artificial mind system and its behaviour is drawn as concretely as possible within a unified context which could eventually lead to practical realisation in terms of hardware or software With a view that the mind is a system always evolving ideas inspired by many branches of studies related to brain science are integrated within the text i.e. artificial intelligence cognitive science psychology connectionism consciousness studies general neuroscience linguistics pattern recognition data clustering robotics and signal processing

Mobile Robots John X. Liu, 2005 Cybersecurity refers to three things measures to protect information technology the information it contains processes and transmits and associated physical and virtual elements which together comprise cyberspace the degree of protection resulting from application of those measures and the associated field of professional endeavor Virtually any element of cyberspace can be at risk and the degree of interconnection of those elements can make it difficult to determine the extent of the cybersecurity framework that is needed Identifying the major weaknesses in U.S. cybersecurity is an area of some controversy the defense against attacks on computer systems and associated infrastructure has appeared to be generally fragmented and varying widely in effectiveness

Computer Recognition Systems 2 Marek Kurzynski, Edward Puchala, Michal Wozniak, Andrzej Zolnierrek, 2007-10-18 This book presents the results of the 5th International Conference on Computer Recognition Systems CORES 07 held 22-25 October 2007 in Hotel Tumski Wroclaw Poland It brings together original research results in both methodological issues and different application areas of pattern recognition The contributions cover all topics in pattern recognition including for example classification and interpretation of text video and voice

Minimum Error Entropy Classification Joaquim P. Marques de Sá, Luís M.A. Silva, Jorge M.F. Santos, Luís A. Alexandre, 2012-07-25 This book explains the minimum error entropy MEE concept applied to data classification machines Theoretical results on the inner workings of the MEE concept in its application to solving a variety of classification problems are presented in the wider realm of risk functionals Researchers and practitioners also find in the book a detailed presentation of practical data classifiers using MEE These include multi layer perceptrons recurrent neural networks complexvalued neural networks modular neural networks and decision trees A clustering algorithm using a MEE like concept is also presented Examples tests evaluation experiments and comparison with similar machines using classic approaches complement the descriptions

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