

# Lecture Notes in Artificial Intelligence 1828

Subseries of Lecture Notes In Computer Science

Ron Sun C. Lee Giles (Eds.)

## Sequence Learning

Paradigms, Algorithms, and Applications



Springer

# Sequence Learning Paradigms Algorithms And Applications

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## **Sequence Learning Paradigms Algorithms And Applications:**

Sequence Learning Ron Sun, C. Lee Giles, 2003-06-29 Sequential behavior is essential to intelligence in general and a fundamental part of human activities ranging from reasoning to language and from everyday skills to complex problem solving Sequence learning is an important component of learning in many tasks and application fields planning reasoning robotics natural language processing speech recognition adaptive control time series prediction financial engineering DNA sequencing and so on This book presents coherently integrated chapters by leading authorities and assesses the state of the art in sequence learning by introducing essential models and algorithms and by examining a variety of applications The book offers topical sections on sequence clustering and learning with Markov models sequence prediction and recognition with neural networks sequence discovery with symbolic methods sequential decision making biologically inspired sequence learning models

Sequence Learning Ron Sun, C. Lee Giles, 2001-01-10 Sequential behavior is essential to intelligence in general and a fundamental part of human activities ranging from reasoning to language and from everyday skills to complex problem solving Sequence learning is an important component of learning in many tasks and application fields planning reasoning robotics natural language processing speech recognition adaptive control time series prediction financial engineering DNA sequencing and so on This book presents coherently integrated chapters by leading authorities and assesses the state of the art in sequence learning by introducing essential models and algorithms and by examining a variety of applications The book offers topical sections on sequence clustering and learning with Markov models sequence prediction and recognition with neural networks sequence discovery with symbolic methods sequential decision making biologically inspired sequence learning models

**Sequence Learning** Ron Sun, C. Lee Giles, 2014-01-15 Algorithms in Bioinformatics Roderic Guigo, Dan Gusfield, 2003-06-30 We are pleased to present the proceedings of the Second Workshop on Algorithms in Bioinformatics WABI 2002 which took place on September 17-21 2002 in Rome Italy The WABI workshop was part of a three conference meeting which in addition to WABI included the ESA and APPROX 2002 The three conferences are jointly called ALGO 2002 and were hosted by the Faculty of Engineering University of Rome La Sapienza See <http://www.dis.uniroma1.it/algo02> for more details The Workshop on Algorithms in Bioinformatics covers research in all areas of algorithmic work in bioinformatics and computational biology The emphasis is on discrete algorithms that address important problems in molecular biology genomics and genetics that are founded on sound models that are computationally efficient and that have been implemented and tested in simulations and on real datasets The goal is to present recent research results including significant work in progress and to identify and explore directions of future research Original research papers including significant work in progress or state of the art surveys were solicited on all aspects of algorithms in bioinformatics including but not limited to exact and approximate algorithms for genomics genetics sequence analysis gene and signal recognition alignment molecular evolution phylogenetics structure determination or prediction gene expression and gene networks proteomics functional

genomics and drug design      *Knowledge Discovery in Databases: PKDD 2004* Jean-Francois Boulicaut, Floriana Esposito, Fosca Giannotti, Dino Pedreschi, 2004-09-10 This book constitutes the refereed proceedings of the 8th European Conference on Principles and Practice of Knowledge Discovery in Databases PKDD 2004 held in Pisa Italy in September 2004 jointly with ECML 2004 The 39 revised full papers and 9 revised short papers presented together with abstracts of 5 invited talks were carefully reviewed and selected from 194 papers submitted to PKDD and 107 papers submitted to both PKDD and ECML The papers present a wealth of new results in knowledge discovery in databases and address all current issues in the area

*Computational Science - ICCS 2007* Yong Shi, 2007-05-18 Annotation The four volume set LNCS 4487 4490 constitutes the refereed proceedings of the 7th International Conference on Computational Science ICCS 2007 held in Beijing China in May 2007 More than 2400 submissions were made to the main conference and its 35 topical workshops The 80 revised full papers and 11 revised short papers of the main track were carefully reviewed and selected from 360 submissions and are presented together with 624 accepted workshop papers in four volumes According to the ICCS 2007 theme Advancing Science and Society through Computation the papers cover a large volume of topics in computational science and related areas from multiscale physics to wireless networks and from graph theory to tools for program development The papers are arranged in topical sections on efficient data management parallel monte carlo algorithms simulation of multiphysics multiscale systems dynamic data driven application systems computer graphics and geometric modeling computer algebra systems computational chemistry computational approaches and techniques in bioinformatics computational finance and business intelligence geocomputation high level parallel programming networks theory and applications collective intelligence for semantic and knowledge grid collaborative and cooperative environments tools for program development and analysis in CS intelligent agents in computing systems CS in software engineering computational linguistics in HCI internet computing in science and engineering workflow systems in e science graph theoretic algorithms and applications in cs teaching CS high performance data mining mining text semi structured Web or multimedia data computational methods in energy economics risk analysis advances in computational geomechanics and geophysics meta synthesis and complex systems scientific computing in electronics engineering wireless and mobile systems high performance networked media and services evolution toward next generation internet real time systems and adaptive applications evolutionary algorithms and evolvable systems

*ICCM 2012 Proceedings* ,      **Memory-Based Language Processing** Walter Daelemans, Antal van den Bosch, 2005-09 Memory based language processing a machine learning and problem solving method for language technology is based on the idea that the direct re use of examples using analogical reasoning is more suited for solving language processing problems than the application of rules extracted from those examples This book discusses the theory and practice of memory based language processing showing its comparative strengths over alternative methods of language modelling Language is complex with few generalizations many sub

regularities and exceptions and the advantage of memory based language processing is that it does not abstract away from this valuable low frequency information      Pattern Recognition and String Matching Dechang Chen,Xiuzhen

Cheng,2013-12-01 The research and development of pattern recognition have proven to be of importance in science technology and human activity Many useful concepts and tools from different disciplines have been employed in pattern recognition Among them is string matching which receives much theoretical and practical attention String matching is also an important topic in combinatorial optimization This book is devoted to recent advances in pattern recognition and string matching It consists of twenty eight chapters written by different authors addressing a broad range of topics such as those from classification matching mining feature selection and applications Each chapter is self contained and presents either novel methodological approaches or applications of existing theories and techniques The aim intent and motivation for publishing this book is to provide a reference tool for the increasing number of readers who depend upon pattern recognition or string matching in some way This includes students and professionals in computer science mathematics statistics and electrical engineering We wish to thank all the authors for their valuable efforts which made this book a reality Thanks also go to all reviewers who gave generously of their time and expertise      Action to Language via the Mirror

Neuron System Michael A. Arbib,2006-09-07 Mirror neurons may hold the brain's key to social interaction each coding not only a particular action or emotion but also the recognition of that action or emotion in others The Mirror System Hypothesis adds an evolutionary arrow to the story from the mirror system for hand actions shared with monkeys and chimpanzees to the uniquely human mirror system for language In this accessible volume experts from child development computer science linguistics neuroscience primatology and robotics present and analyse the mirror system and show how studies of action and language can illuminate each other Topics discussed in the fifteen chapters include what do chimpanzees and humans have in common Does the human capability for language rest on brain mechanisms shared with other animals How do human infants acquire language What can be learned from imaging the human brain How are sign and spoken language related Will robots learn to act and speak like humans      *Principles of Data Mining and Knowledge Discovery* Tapio Elomaa,Heikki

Mannila,Hannu Toivonen,2003-08-02 This book constitutes the refereed proceedings of the 6th European Conference on Principles of Data Mining and Knowledge Discovery PKDD 2002 held in Helsinki Finland in August 2002 The 39 revised full papers presented together with 4 invited contributions were carefully reviewed and selected from numerous submissions Among the topics covered are kernel methods probabilistic methods association rule mining rough sets sampling algorithms pattern discovery web text mining meta data clustering rule induction information extraction dependency detection rare class prediction classifier systems text classification temporal sequence analysis unsupervised learning time series analysis medical data mining etc      **Artificial Neural Networks - ICANN 2009** Cesare Alippi,Marios Polycarpou,Christos

Panayiotou,Georgios Ellinas,2009-09-03 This volume is part of the two volume proceedings of the 19th International Conf

ence on Artificial Neural Networks ICANN 2009 which was held in Cyprus during September 14-17 2009 The ICANN conference is an annual meeting sponsored by the European Neural Network Society ENNS in cooperation with the International Neural Network Society INNS and the Japanese Neural Network Society JNNS ICANN 2009 was technically sponsored by the IEEE Computational Intelligence Society This series of conferences has been held annually since 1991 in various European countries and covers the field of neurocomputing learning systems and related areas Artificial neural networks provide an information processing structure inspired by biological nervous systems They consist of a large number of highly interconnected processing elements with the capability of learning by example The field of artificial neural networks has evolved significantly in the last two decades with active participation from diverse fields such as engineering computer science mathematics artificial intelligence system theory biology operations research and neuroscience Artificial neural networks have been widely applied for pattern recognition control optimization image processing classification signal processing etc

Computational Learning Approaches to Data Analytics in Biomedical Applications Khalid Al-Jabery, Tayo Obafemi-Ajayi, Gayla Olbricht, Donald Wunsch, 2019-11-20 Computational Learning Approaches to Data Analytics in Biomedical Applications provides a unified framework for biomedical data analysis using varied machine learning and statistical techniques It presents insights on biomedical data processing innovative clustering algorithms and techniques and connections between statistical analysis and clustering The book introduces and discusses the major problems relating to data analytics provides a review of influential and state of the art learning algorithms for biomedical applications reviews cluster validity indices and how to select the appropriate index and includes an overview of statistical methods that can be applied to increase confidence in the clustering framework and analysis of the results obtained Includes an overview of data analytics in biomedical applications and current challenges Updates on the latest research in supervised learning algorithms and applications clustering algorithms and cluster validation indices Provides complete coverage of computational and statistical analysis tools for biomedical data analysis Presents hands on training on the use of Python libraries MATLAB tools WEKA SAP HANA and R Bioconductor

**The Autonomous Web** Herwig Unger, Mario Kubek, 2022-01-01 This book initiates a transformation of the Web into a self managing autonomous information system to challenge today's all embracing role of big search engines as centralized information managers In the last decades the World Wide Web became the biggest source for all kinds of information needed After a short review of the state of the art a Web based system is presented for the first time which employs all its instances equally to provide consume and process information uniformly and consistently In order to build such an efficient decentralized and fully integrated information space with all its needed functionalities a set of diverse algorithms is introduced These novel mechanisms for load balancing routing clustering document classification but also time dependent information management pertain to almost all system levels Finally three different approaches to decentralized Web search are discussed that represent the backbone of the new autonomous Web

**Strategic**

**Facilitation of Complex Decision-Making** Ariel Macaspac Hernández, 2014-05-21 This book provides theoretical and practical insights for effective decision making in situations that involve various types of conflict cleavages Embedding historical analysis negotiation analysis political scientific analysis and game theoretical analysis in an integrated analytical framework allows a comprehensive perspective on various dilemmas and self enforcing dynamics that inhibit decision making The conceptualization of strategic facilitation highlights the value of leadership chairmanship and the role of threshold states in facilitating decision making as the global climate change negotiations unfolds

**Bio-Inspired Applications of Connectionism** Jose Mira, Alberto Prieto, 2003-06-29 Underlying most of the IWANN calls for papers is the aim to reassume some of the motivations of the groundwork stages of biocybernetics and the later bionics formulations and to try to reconsider the present value of two basic questions The rstoneis Whatdoesneurosciencebringintocomputation thenew bionics That is to say how can we seek inspiration in biology Titles such as computational intelligence arti cial neural nets genetic algorithms evolutionary hardware evolutive architectures embryonics sensory n romorphic systems and emotional robotics are representatives of the present interest in biological electronics bionics Thesecondquestionis Whatcanreturncomputationtoneuroscience the new neurocybernetics That is to say how can mathematics electronics c puter science and arti cial intelligence help the neurobiologists to improve their experimental data modeling and to move a step forward towards the understa ing of the nervous system Relevant here are the general philosophy of the IWANN conferences the sustained interdisciplinary approach and the global strategy again and again to bring together physiologists and computer experts to consider the common and pertinent questions and the shared methods to answer these questions

*Transactions on Computational Systems Biology III* Corrado Priami, Emanuela Merelli, Pedro Pablo Gonzalez, Andrea Omicini, 2005-12-06 The LNCS journal Transactions on Computational Systems Biology is devoted to inter and multidisciplinary research in the fields of computer science and life sciences and supports a paradigmatic shift in the techniques from computer and information science to cope with the new challenges arising from the systems oriented point of view of biological phenomena This the third Transactions on Computational Systems Biology volume edited by Emanuela Merelli Pedro Pablo Gonzalez and Andrea Omicini is devoted to considerably extended versions of selected papers presented at the International Workshop on Network Tools and Applications in Biology NETTAB 2004 held at the University of Camerino in Camerino Italy in September 2004 Dedicated especially to models and metaphors from biology to bioinformatics tools the 10 papers selected for the special issue cover a wide range of bioinformatics research such as data visualisation protein RNA structure prediction motif finding modelling and simulation of protein interaction genetic linkage analysis and notations and models for systems biology

*Proceedings of the 2001 Fourth International Conference on Cognitive Modeling* Erik M. Altmann, Axel Cleeremans, Christian D. Schunn, Wayne D. Gray, 2001-07-01 This book documents the proceedings of the Fourth International Conference on Cognitive Modeling ICCM which brought together researchers from

diverse backgrounds to compare cognitive models evaluate models using human data and further the development accumulation and integration of cognitive theory ICCM provides a worldwide forum for cognitive scientists who build computational cognitive models and test them against empirical cognitive data New features of the conference included the Newell Award for best student paper the Siegel Wolf Award for best applied research paper and a Doctoral Consortium which provided an opportunity for students to meet their peers and mentors and to explore their dissertation work in an intense but friendly multi approach environment These new features as well as a comprehensive view of the posters presented at the conference are offered in this volume *Recent Advances in Artificial Intelligence Research and*

*Development* I. Aguiló, R. Alquézar, C. Angulo, 2017-10-25 Artificial intelligence in all its forms is increasingly interwoven into all our lives and remains one of the most lively areas of discussion and interest in technology today This book presents the proceedings of the 20th International Conference of the Catalan Association for Artificial Intelligence CCIA 2017 Recent Advances in Artificial Intelligence Research and Development held in Deltebre Terres de l'Ebre Spain in October 2017 Despite its title this annual conference is not only for researchers from the Catalan Countries but is an international event which attracts participants from countries all around the world In total 41 original contributions were submitted to CCIA 2017 Of these 21 were accepted as long papers for oral presentation and 13 were accepted as short papers to be presented as posters These 34 submissions appear in this book organized around a number of different topics including agents and multi agent systems artificial vision and image processing machine learning artificial neural networks cognitive modeling fuzzy logic and reasoning robotics and AI applications The book also includes abstracts of the 3 presentations by invited speakers The book offers a representative sample of the current state of the art in the artificial intelligence community and will be of interest to all those working with AI worldwide **Bioinformatics, second edition** Pierre Baldi, Søren

Brunak, 2001-07-20 A guide to machine learning approaches and their application to the analysis of biological data An unprecedented wealth of data is being generated by genome sequencing projects and other experimental efforts to determine the structure and function of biological molecules The demands and opportunities for interpreting these data are expanding rapidly Bioinformatics is the development and application of computer methods for management analysis interpretation and prediction as well as for the design of experiments Machine learning approaches e.g. neural networks hidden Markov models and belief networks are ideally suited for areas where there is a lot of data but little theory which is the situation in molecular biology The goal in machine learning is to extract useful information from a body of data by building good probabilistic models and to automate the process as much as possible In this book Pierre Baldi and Søren Brunak present the key machine learning approaches and apply them to the computational problems encountered in the analysis of biological data The book is aimed both at biologists and biochemists who need to understand new data driven algorithms and at those with a primary background in physics mathematics statistics or computer science who need to know more about applications



in molecular biology This new second edition contains expanded coverage of probabilistic graphical models and of the applications of neural networks as well as a new chapter on microarrays and gene expression The entire text has been extensively revised

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