

# CREATING A MEMORY OF CAUSAL RELATIONSHIPS

## An Integration of Empirical and Explanation-Based Learning Methods

MICHAEL J. PAZZANI

A Psychology Press Book



# Creating A Memory Of Causal Relationships An Integration Of Empirical And Explanation Based Learning Methods

**Michael J. Pazzani**



## **Creating A Memory Of Causal Relationships An Integration Of Empirical And Explanation Based Learning Methods:**

Creating a Memory of Causal Relationships Michael John Pazzani, 1990 First Published in 1990 Routledge is an imprint of Taylor Francis an informa company      Creating a Memory of Causal Relationships Michael J Pazzani, 1990-06-01 This book presents a theory of learning new causal relationships by making use of perceived regularities in the environment general knowledge of causality and existing causal knowledge Integrating ideas from the psychology of causation and machine learning the author introduces a new learning procedure called theory driven learning that uses abstract knowledge of causality to guide the induction process Known as OCCAM the system uses theory driven learning when new experiences conform to common patterns of causal relationships empirical learning to learn from novel experiences and explanation based learning when there is sufficient existing knowledge to explain why a new outcome occurred Together these learning methods construct a hierarchical organized memory of causal relationships As such OCCAM is the first learning system with the ability to acquire via empirical learning the background knowledge required for explanation based learning Please note This program runs on common lisp      **Creating A Memory of Causal Relationships** Michael J. Pazzani, 2014-02-25 This book presents a theory of learning new causal relationships by making use of perceived regularities in the environment general knowledge of causality and existing causal knowledge Integrating ideas from the psychology of causation and machine learning the author introduces a new learning procedure called theory driven learning that uses abstract knowledge of causality to guide the induction process Known as OCCAM the system uses theory driven learning when new experiences conform to common patterns of causal relationships empirical learning to learn from novel experiences and explanation based learning when there is sufficient existing knowledge to explain why a new outcome occurred Together these learning methods construct a hierarchical organized memory of causal relationships As such OCCAM is the first learning system with the ability to acquire via empirical learning the background knowledge required for explanation based learning Please note This program runs on common lisp      **Creating a Memory of Casual Relationships** Michael J. Pazzani, 1990 This book presents a theory of learning new causal relationships by making use of perceived regularities in the environment general knowledge of causality and existing causal knowledge Integrating ideas from the psychology of causation and machine learning the author introduces a new learning procedure called theory driven learning that uses abstract knowledge of causality to guide the induction process Known as OCCAM the system uses theory driven learning when new experiences conform to common patterns of causal relationships empirical learning to learn from novel experiences and explanation based learning when there is sufficient existing knowledge to explain why a new outcome occurred Together these learning methods construct a hierarchical organized memory of causal relationships As such OCCAM is the first learning system with the ability to acquire via empirical learning the background knowledge required for explanation based learning Please note

This program runs on common lisp      Machine Learning Ryszard S. Michalski, George Tecuci, 1994-02-09 Multistrategy learning is one of the newest and most promising research directions in the development of machine learning systems The objectives of research in this area are to study trade offs between different learning strategies and to develop learning systems that employ multiple types of inference or computational paradigms in a learning process Multistrategy systems offer significant advantages over monostrategy systems They are more flexible in the type of input they can learn from and the type of knowledge they can acquire As a consequence multistrategy systems have the potential to be applicable to a wide range of practical problems This volume is the first book in this fast growing field It contains a selection of contributions by leading researchers specializing in this area See below for earlier volumes in the series      *Multistrategy Learning* Ryszard S. Michalski, 2012-12-06 Most machine learning research has been concerned with the development of systems that implement one type of inference within a single representational paradigm Such systems which can be called monostrategy learning systems include those for empirical induction of decision trees or rules explanation based generalization neural net learning from examples genetic algorithm based learning and others Monostrategy learning systems can be very effective and useful if learning problems to which they are applied are sufficiently narrowly defined Many real world applications however pose learning problems that go beyond the capability of monostrategy learning methods In view of this recent years have witnessed a growing interest in developing multistrategy systems which integrate two or more inference types and or paradigms within one learning system Such multistrategy systems take advantage of the complementarity of different inference types or representational mechanisms Therefore they have a potential to be more versatile and more powerful than monostrategy systems On the other hand due to their greater complexity their development is significantly more difficult and represents a new great challenge to the machine learning community Multistrategy Learning contains contributions characteristic of the current research in this area      **Case-Based Learning** Janet L. Kolodner, 1993-04-30 Case based reasoning means reasoning based on remembering previous experiences A reasoner using old experiences cases might use those cases to suggest solutions to problems to point out potential problems with a solution being computed to interpret a new situation and make predictions about what might happen or to create arguments justifying some conclusion A case based reasoner solves new problems by remembering old situations and adapting their solutions It interprets new situations by remembering old similar situations and comparing and contrasting the new one to old ones to see where it fits best Case based reasoning combines reasoning with learning It spans the whole reasoning cycle A situation is experienced Old situations are used to understand it Old situations are used to solve a problem if there is one to be solved Then the new situation is inserted into memory alongside the cases it used for reasoning to be used another time The key to this reasoning method then is remembering Remembering has two parts integrating cases or experiences into memory when they happen and recalling them in appropriate situations later on The case based reasoning community calls this related set of issues the

indexing problem In broad terms it means finding in memory the experience closest to a new situation In narrower terms it can be described as a two part problem assigning indexes or labels to experiences when they are put into memory that describe the situations to which they are applicable so that they can be recalled later and at recall time elaborating the new situation in enough detail so that the indexes it would have if it were in the memory are identified Case Based Learning is an edited volume of original research comprising invited contributions by leading workers This work has also been published as a special issues of MACHINE LEARNING Volume 10 No 3      Building Intelligent Agents Gheorghe Tecuci,1998-06-23 Building Intelligent Agents is unique in its comprehensive coverage of the subject The first part of the book presents an original theory for building intelligent agents and a methodology and tool that implement the theory The second part of the book presents complex and detailed case studies of building different types of agents an educational assessment agent a statistical analysis assessment and support agent an engineering design assistant and a virtual military commander Also featured in this book is Disciple a toolkit for building interactive agents which function in much the same way as a human apprentice Disciple based agents can reason both with incomplete information but also with information that is potentially incorrect This approach in which the agent learns its behavior from its teacher integrates many machine learning and knowledge acquisition techniques taking advantage of their complementary strengths to compensate for each others weakness As a consequence it significantly reduces or even eliminates the involvement of a knowledge engineer in the process of building an intelligent agent      **Data Mining in Finance** Boris Kovalerchuk,Evgenii Vityaev,2005-12-11 Data Mining in Finance presents a comprehensive overview of major algorithmic approaches to predictive data mining including statistical neural networks ruled based decision tree and fuzzy logic methods and then examines the suitability of these approaches to financial data mining The book focuses specifically on relational data mining RDM which is a learning method able to learn more expressive rules than other symbolic approaches RDM is thus better suited for financial mining because it is able to make greater use of underlying domain knowledge Relational data mining also has a better ability to explain the discovered rules an ability critical for avoiding spurious patterns which inevitably arise when the number of variables examined is very large The earlier algorithms for relational data mining also known as inductive logic programming ILP suffer from a relative computational inefficiency and have rather limited tools for processing numerical data Data Mining in Finance introduces a new approach combining relational data mining with the analysis of statistical significance of discovered rules This reduces the search space and speeds up the algorithms The book also presents interactive and fuzzy logic tools for mining the knowledge from the experts further reducing the search space Data Mining in Finance contains a number of practical examples of forecasting S P 500 exchange rates stock directions and rating stocks for portfolio allowing interested readers to start building their own models This book is an excellent reference for researchers and professionals in the fields of artificial intelligence machine learning data mining knowledge discovery and applied mathematics

*Introduction to Data Mining and its Applications* S. Sumathi, S.N. Sivanandam, 2006-10-12 This book explores the concepts of data mining and data warehousing a promising and flourishing frontier in database systems and presents a broad yet in depth overview of the field of data mining Data mining is a multidisciplinary field drawing work from areas including database technology artificial intelligence machine learning neural networks statistics pattern recognition knowledge based systems knowledge acquisition information retrieval high performance computing and data visualization

*Proceedings of the Seventeenth Annual Conference of the Cognitive Science Society* Cognitive Science Society (U.S.). Conference, 1995 This volume features the complete text of all regular papers posters and summaries of symposia presented at the 17th annual meeting of the Cognitive Science Society

*Evaluating Explanations* David B. Leake, 2014-02-25 Psychology and philosophy have long studied the nature and role of explanation More recently artificial intelligence research has developed promising theories of how explanation facilitates learning and generalization By using explanations to guide learning explanation based methods allow reliable learning of new concepts in complex situations often from observing a single example The author of this volume however argues that explanation based learning research has neglected key issues in explanation construction and evaluation By examining the issues in the context of a story understanding system that explains novel events in news stories the author shows that the standard assumptions do not apply to complex real world domains An alternative theory is presented one that demonstrates that context involving both explainer beliefs and goals is crucial in deciding an explanation's goodness and that a theory of the possible contexts can be used to determine which explanations are appropriate This important view is demonstrated with examples of the performance of ACCEPTER a computer system for story understanding anomaly detection and explanation evaluation

**Elsevier's Dictionary of Psychological Theories** J.E. Roedelein, 2006-01-19 In attempting to understand and explain various behaviour events and phenomena in their field psychologists have developed and enunciated an enormous number of best guesses or theories concerning the phenomenon in question Such theories involve speculations and statements that range on a potency continuum from strong to weak The term theory itself has been conceived of in various ways in the psychological literature In the present dictionary the strategy of lumping together all the various traditional descriptive labels regarding psychologists best guesses under the single descriptive term theory has been adopted The descriptive labels of principle law theory model paradigm effect hypothesis and doctrine are attached to many of the entries and all such descriptive labels are subsumed under the umbrella term theory The title of this dictionary emphasizes the term theory implying both strong and weak best guesses and is a way of indication overall the contents of this comprehensive dictionary in a parsimonious and felicitous fashion The dictionary will contain approximately 2 000 terms covering the origination development and evolution of various psychological concepts as well as the historical definition analysis and criticisms of psychological concepts Terms and definitions are in English Contains over 2 000 terms covering the origination development and evolution of various psychological concepts Covers a

wide span of theories from auditory cognitive tactile and visual to humor and imagery An essential resource for psychologists needing a single source quick reference      Categorization by Humans and Machines ,1993-10-22 The objective of the series has always been to provide a forum in which leading contributors to an area can write about significant bodies of research in which they are involved The operating procedure has been to invite contributions from interesting active investigators and then allow them essentially free rein to present their perspectives on important research problems The result of such invitations over the past two decades has been collections of papers which consist of thoughtful integrations providing an overview of a particular scientific problem The series has an excellent tradition of high quality papers and is widely read by researchers in cognitive and experimental psychology      **Computational Architectures Integrating Neural and**

**Symbolic Processes** Ron Sun, Lawrence A. Bookman, 2007-08-19 Computational Architectures Integrating Neural and Symbolic Processes A Perspective on the State of the Art focuses on a currently emerging body of research With the reemergence of neural networks in the 1980s with their emphasis on overcoming some of the limitations of symbolic AI there is clearly a need to support some form of high level symbolic processing in connectionist networks As argued by many researchers on both the symbolic AI and connectionist sides many cognitive tasks e g language understanding and common sense reasoning seem to require high level symbolic capabilities How these capabilities are realized in connectionist networks is a difficult question and it constitutes the focus of this book Computational Architectures Integrating Neural and Symbolic Processes addresses the underlying architectural aspects of the integration of neural and symbolic processes In order to provide a basis for a deeper understanding of existing divergent approaches and provide insight for further developments in this field this book presents 1 an examination of specific architectures grouped together according to their approaches their strengths and weaknesses why they work and what they predict and 2 a critique comparison of these approaches Computational Architectures Integrating Neural and Symbolic Processes is of interest to researchers graduate students and interested laymen in areas such as cognitive science artificial intelligence computer science cognitive psychology and neurocomputing in keeping up to date with the newest research trends It is a comprehensive in depth introduction to this new emerging field      **The 1995 Goddard Conference on Space Applications of Artificial**

**Intelligence and Emerging Information Technologies** Carl F. Hostetter, 1995      *Planning and Learning by Analogical Reasoning* Manuela M. Veloso, 1994-12-07 This research monograph describes the integration of analogical and case based reasoning into general problem solving and planning as a method of speedup learning The method based on derivational analogy has been fully implemented in PRODIGY ANALOGY and proven in practice to be amenable to scaling up both in terms of domain and problem complexity In this work the strategy level learning process is cast for the first time as the automation of the complete cycle of construction storing retrieving and flexibly reusing problem solving experience The algorithms involved are presented in detail and numerous examples are given Thus the book addresses researchers as well as

practitioners      **Cognitive Science Technical Report** ,1991      *Case-Based Reasoning* Janet Kolodner,2014-06-28 Case based reasoning is one of the fastest growing areas in the field of knowledge based systems and this book authored by a leader in the field is the first comprehensive text on the subject Case based reasoning systems are systems that store information about situations in their memory As new problems arise similar situations are searched out to help solve these problems Problems are understood and inferences are made by finding the closest cases in memory comparing and contrasting the problem with those cases making inferences based on those comparisons and asking questions when inferences can t be made This book presents the state of the art in case based reasoning The author synthesizes and analyzes a broad range of approaches with special emphasis on applying case based reasoning to complex real world problem solving tasks such as medical diagnosis design conflict resolution and planning The author s approach combines cognitive science and engineering and is based on analysis of both expert and common sense tasks Guidelines for building case based expert systems are provided such as how to represent knowledge in cases how to index cases for accessibility how to implement retrieval processes for efficiency and how to adapt old solutions to fit new situations This book is an excellent text for courses and tutorials on case based reasoning It is also a useful resource for computer professionals and cognitive scientists interested in learning more about this fast growing field      **Machine Learning Methods for Planning** Steven Minton,2014-05-12 Machine Learning Methods for Planning provides information pertinent to learning methods for planning and scheduling This book covers a wide variety of learning methods and learning architectures including analogical case based decision tree explanation based and reinforcement learning Organized into 15 chapters this book begins with an overview of planning and scheduling and describes some representative learning systems that have been developed for these tasks This text then describes a learning apprentice for calendar management Other chapters consider the problem of temporal credit assignment and describe tractable classes of problems for which optimal plans can be derived This book discusses as well how reactive integrated systems give rise to new requirements and opportunities for machine learning The final chapter deals with a method for learning problem decompositions which is based on an idealized model of efficiency for problem reduction search This book is a valuable resource for production managers planners scientists and research workers



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in tom sawyer s day what was the teacher like how

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~~the novel opens with aunt polly searching for tom sawyer the young protagonist of the novel who along with his younger brother sidney was sent to live in st petersburg missouri after his mother s death~~

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