Evaluating Explanations
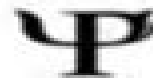
A Content Theory

David B. Leake

Evaluating Explanations A Content Theory

Kerstin Bach,Cindy Marling

Evaluating Explanations A Content Theory:

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 **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 Inside Case-Based Explanation Roger C. Schank,Alex Kass,Christopher K. Riesbeck,2014-02-24 This book is the third volume in a series that provides a hands on perspective on the evolving theories associated with Roger Schank and his students The primary focus of this volume is on constructing explanations All of the chapters relate to the problem of building computer programs that can develop hypotheses about what might have caused an observed event Because most researchers in natural language processing don t really want to work on inference memory and learning issues most of their sample text fragments are chosen carefully to de emphasize the need for non text related reasoning The ability to come up with hypotheses about what is really going on in a story is a hallmark of human intelligence The biggest difference between truly intelligent readers and less intelligent ones is the extent to which the reader can go beyond merely understanding the explicit statements being communicated Achieving a creative level of understanding means

developing hypotheses about questions for which there may be no conclusively correct answer at all The focus of the lab during the period documented in this book was to work on getting a computer program to do that The volume adopts a case based approach to the construction of explanations which suggests that the main steps in the process of explaining a given anomaly are as follows Retrieve an explanation that might be relevant to the anomaly Evaluate whether the retrieved explanation makes sense when applied to the current anomaly Adapt the explanation to produce a new variant that fits better if the retrieved explanation doesn t fit the anomaly perfectly *Goal-driven Learning* Ashwin Ram,David B. Leake,1995 Brings together a diversity of research on goal driven learning to establish a broad interdisciplinary framework that describes the goal driven learning process In cognitive science artificial intelligence psychology and education a growing body of research supports the view that the learning process is strongly influenced by the learner s goals The fundamental tenet of goal driven learning is that learning is largely an active and strategic process in which the learner human or machine attempts to identify and satisfy its information needs in the context of its tasks and goals its prior knowledge its capabilities and environmental opportunities for learning This book brings together a diversity of research on goal driven learning to establish a broad interdisciplinary framework that describes the goal driven learning process It collects and solidifies existing results on this important issue in machine and human learning and presents a theoretical framework for future investigations The book opens with an an overview of goal driven learning research and computational and cognitive models of the goal driven learning process This introduction is followed by a collection of fourteen recent research articles addressing fundamental issues of the field including psychological and functional arguments for modeling learning as a deliberative planful process experimental evaluation of the benefits of utility based analysis to guide decisions about what to learn case studies of computational models in which learning is driven by reasoning about learning goals psychological evidence for human goal driven learning and the ramifications of goal driven learning in educational contexts The second part of the book presents six position papers reflecting ongoing research and current issues in goal driven learning Issues discussed include methods for pursuing psychological studies of goal driven learning frameworks for the design of active and multistrategy learning systems and methods for selecting and balancing the goals that drive learning A Bradford Book **Case-Based Reasoning Research and Development** Michael T. Cox,Peter Funk,Shahina Begum,2018-10-08 This book constitutes the refereed proceedings of the 26th International Conference on Case Based Reasoning Research and Development ICCBR 2018 held in Stockholm Sweden in July 2018 The 39 full papers presented in this book were carefully reviewed and selected from 77 submissions The theme of ICCBR 2017 The Future of CBR was highlighted by several activities These papers which are included in the proceedings address many themes related to the theory and application of case based reasoning and its future direction Topics included multiple papers on textual CBR and a number of cognitive and human oriented papers as well as hybrid research between CBR and machine learning *Argument Evaluation and Evidence* Douglas

Walton,2015-08-04 This monograph poses a series of key problems of evidential reasoning and argumentation It then offers solutions achieved by applying recently developed computational models of argumentation made available in artificial intelligence Each problem is posed in such a way that the solution is easily understood The book progresses from confronting these problems and offering solutions to them building a useful general method for evaluating arguments along the way It provides a hands on survey explaining to the reader how to use current argumentation methods and concepts that are increasingly being implemented in more precise ways for the application of software tools in computational argumentation systems It shows how the use of these tools and methods requires a new approach to the concepts of knowledge and explanation suitable for diverse settings such as issues of public safety and health debate legal argumentation forensic evidence science education and the use of expert opinion evidence in personal and public deliberations **Proceedings of the Sixteenth Annual Conference of the Cognitive Science Society** Ashwin Ram,Kurt Eiselt,2019-05-23 This volume features the complete text of all regular papers posters and summaries of symposia presented at the 16th annual meeting of the Cognitive Science Society **Tenth Scandinavian Conference on Artificial Intelligence** Anders Holst,Per Kreuger,Peter Funk,2008 The Scandinavian Conference on Artificial Intelligence is one of the regional AI conferences in Europe This title includes contributions that exemplify the diversity of research in artificial intelligence and confirm the achievement and magnitude of 25 years AI research in Scandinavia **Case-Based Reasoning Research and Development** Kerstin Bach,Cindy Marling,2019-09-02 This book constitutes the refereed proceedings of the 27th International Conference on Case Based Reasoning Research and Development ICCBR 2019 held in Otzenhausen Germany in September 2019 The 26 full papers presented in this book were carefully reviewed and selected from 43 submissions 15 were selected for oral presentation and 11 for poster presentation The theme of ICCBR 2019 Explainable AI XAI was highlighted by several activities These papers which are included in the proceedings address many themes related to the theory and application of case based reasoning and its future direction Proceedings of the Fourteenth Annual Conference of the Cognitive Science Society Cognitive Science Society (US) Conference,2014-05-12 This volume features the complete text of all regular papers posters and summaries of symposia presented at the 14th annual meeting of the Cognitive Science Society *Judicial Applications of Artificial Intelligence* Giovanni Sartor,L. Karl Branting,2013-04-17 The judiciary is in the early stages of a transformation in which AI Artificial Intelligence technology will help to make the judicial process faster cheaper and more predictable without compromising the integrity of judges discretionary reasoning Judicial decision making is an area of daunting complexity where highly sophisticated legal expertise merges with cognitive and emotional competence How can AI contribute to a process that encompasses such a wide range of knowledge judgment and experience Rather than aiming at the impossible dream or nightmare of building an automatic judge AI research has had two more practical goals producing tools to support judicial activities including programs for intelligent document assembly case retrieval and support

for discretionary decision making and developing new analytical tools for understanding and modeling the judicial process such as case based reasoning and formal models of dialectics argumentation and negotiation Judges squeezed between tightening budgets and increasing demands for justice are desperately trying to maintain the quality of their decision making process while coping with time and resource limitations Flexible AI tools for decision support may promote uniformity and efficiency in judicial practice while supporting rational judicial discretion Similarly AI may promote flexibility efficiency and accuracy in other judicial tasks such as drafting various judicial documents The contributions in this volume exemplify some of the directions that the AI transformation of the judiciary will take   Language, Culture, Computation: Computing for the Humanities, Law, and Narratives Nachum Dershowitz,Ephraim Nissan,2014-12-04 This Festschrift volume is published in Honor of Yaacov Choueka on the occasion of this 75th birthday The present three volumes liber amicorum several years in gestation honours this outstanding Israeli computer scientist and is dedicated to him and to his scientific endeavours Yaacov s research has had a major impact not only within the walls of academia but also in the daily life of lay users of such technology that originated from his research An especially amazing aspect of the temporal span of his scholarly work is that half a century after his influential research from the early 1960s a project in which he is currently involved is proving to be a sensation as will become apparent from what follows Yaacov Choueka began his research career in the theory of computer science dealing with basic questions regarding the relation between mathematical logic and automata theory From formal languages Yaacov moved to natural languages He was a founder of natural language processing in Israel developing numerous tools for Hebrew He is best known for his primary role together with Aviezri Fraenkel in the development of the Responsa Project one of the earliest fulltext retrieval systems in the world More recently he has headed the Friedberg Genizah Project which is bringing the treasures of the Cairo Genizah into the Digital Age This second part of the three volume set covers a range of topics related to the application of information technology in humanities law and narratives The papers are grouped in topical sections on humanities computing narratives and their formal representation history of ideas the numerate disciplines law computer law and legal computing   **Computer Applications for Handling Legal Evidence, Police Investigation and Case Argumentation** Ephraim Nissan,2012-06-15 This book provides an overview of computer techniques and tools especially from artificial intelligence AI for handling legal evidence police intelligence crime analysis or detection and forensic testing with a sustained discussion of methods for the modelling of reasoning and forming an opinion about the evidence methods for the modelling of argumentation and computational approaches to dealing with legal or any narratives By the 2000s the modelling of reasoning on legal evidence has emerged as a significant area within the well established field of AI Law An overview such as this one has never been attempted before It offers a panoramic view of topics techniques and tools It is more than a survey as topic after topic the reader can get a closer view of approaches and techniques One aim is to introduce practitioners of AI to the modelling legal evidence Another aim is to introduce legal

professionals as well as the more technically oriented among law enforcement professionals or researchers in police science to information technology resources from which their own respective field stands to benefit Computer scientists must not blunder into design choices resulting in tools objectionable for legal professionals so it is important to be aware of ongoing controversies A survey is provided of argumentation tools or methods for reasoning about the evidence Another class of tools considered here is intended to assist in organisational aspects of managing of the evidence Moreover tools appropriate for crime detection intelligence and investigation include tools based on link analysis and data mining Concepts and techniques are introduced along with case studies So are areas in the forensic sciences Special chapters are devoted to VIRTOPSY a procedure for legal medicine and FLINTS a tool for the police This is both an introductory book possibly a textbook and a reference for specialists from various quarters **The Cognitive Science of Science** Paul Thagard,2012-04-06 A cognitive science perspective on scientific development drawing on philosophy psychology neuroscience and computational modeling Many disciplines including philosophy history and sociology have attempted to make sense of how science works In this book Paul Thagard examines scientific development from the interdisciplinary perspective of cognitive science Cognitive science combines insights from researchers in many fields philosophers analyze historical cases psychologists carry out behavioral experiments neuroscientists perform brain scans and computer modelers write programs that simulate thought processes Thagard develops cognitive perspectives on the nature of explanation mental models theory choice and resistance to scientific change considering disbelief in climate change as a case study He presents a series of studies that describe the psychological and neural processes that have led to breakthroughs in science medicine and technology He shows how discoveries of new theories and explanations lead to conceptual change with examples from biology psychology and medicine Finally he shows how the cognitive science of science can integrate descriptive and normative concerns and he considers the neural underpinnings of certain scientific concepts **Designing Smart Homes** Juan Carlos Augusto,Chris D. Nugent,2006-07-01 Smart homes are proving to be an emergent area which attracts the synergy of several areas of science This volume offers a collection of contributions addressing how artificial intelligence AI one of the core areas of computer science can bring the growing area of smart homes to a higher level of functionality where homes can truly realize the long standing dream of proactively helping their inhabitants in an intelligent way <u>Practices of Futurecasting</u> Michael Shamiyeh,2024-11-18 What do designers scientists entrepreneurs and politicians have in common They all want to shape the future But how can you make the future that which does not yet exist tangible for others In this book over 40 thought leaders from the worlds of business politics art and science address the issue of futurecasting It includes texts by Alex McDowell the award winning creative director who worked on Steven Spielberg s future films by Angela Wilkinson who reports on her work as Secretary General of the World Energy Council and by David Kirby who writes about the valuable collaboration between industry and science fiction A book by and for those who want to shape the future Why futurecasting is of vital importance

How to shape the future Which methods are effective __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 *Case-Based Reasoning Research and Development* Manuela Veloso,Agnar Aamodt,1995-10-16 This book constitutes the refereed proceedings of the First International Conference on Case Based Reasoning ICCBR 95 held in Sesimbra Portugal in October 1995 The 52 revised papers included are classified as scientific papers application papers and posters All current aspects of research and development aiming at industrial applications in CBR are addressed Among the topical sections are case and knowledge representation case retrieval nearest neighbour methods case adaption and learning cognitive modelling integrated reasoning methods and application oriented methods planning decision making diagnosis interpretation design etc **How Scientists Explain Disease** Paul Thagard,2018-06-05 How do scientists develop new explanations of disease How do those explanations become accepted as true And how does medical diagnosis change when physicians are confronted with new scientific evidence These are some of the questions that Paul Thagard pursues in this pathbreaking book that develops a new integrative approach to the study of science Ranging through the history of medicine from the Hippocratic theory of humors to modern explanations of Mad Cow Disease and chronic fatigue syndrome Thagard analyzes the development and acceptance of scientific ideas At the heart of the book is a case study of the recent dramatic shift in medical understanding of peptic ulcers most of which are now believed to be caused by infection by the bacterium Helicobacter pylori When this explanation was first proposed in 1983 it was greeted with intense skepticism by most medical experts but it became widely accepted over the next decade Thagard discusses the psychological processes of discovery and acceptance the physical processes involving instruments and experiments and the social processes of collaboration communication and consensus that brought about this transformation in medical knowledge

How Scientists Explain Disease challenges both traditional philosophy of science which has viewed science as largely a matter of logic and contemporary science studies that view science as largely a matter of power Drawing on theories of distributed computing and artificial intelligence Paul Thagard develops new models that make sense of scientific change as a complex system of cognitive social and physical interactions This is a book that will appeal to all readers with an interest in the development of science and medicine It combines an engaging style significant research and a powerfully original argument **Encyclopedia of Microcomputers** Allen Kent,James G. Williams,1998-10-30 Applications of Negotiating and Learning Agents to User Query Performance with Database Feedback

Evaluating Explanations A Content Theory Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Evaluating Explanations A Content Theory**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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