Abduction in Logic Programming

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Abstract. Abduction in Logic Programming started in the late 80s,
early 90s, in an attempt to extend logic programming into a framework
suitable for a variety of problems in Artificial Intelligence and other areas
of Computer Science. This paper aims to chart out the main develop-
ments of the field over the last ten years and to take a critical view of
these developments from several perspectives: logical, epistemological,
computational and suitability to application. The paper attempts to ex-
pose some of the challenges and prospects for the further development
of the field.

1 Introduction

Over the last two decades, abduction has been embraced in AI as a non-monotonic
reasoning paradigm to address some of the limitations of deductive reasoning in
classical logic. The role of abduction has been demonstrated in a variety of appli-
cations. It has been proposed as a reasoning paradigm in AI for diagnosis [8,90],
natural language understanding [8,39,4,93], default reasoning [81,29,25,50], plan-
ning [28,110,71,59], knowledge assimilation and belief revision [54,76], multi-
agent systems [7,64,102] and other problems.

In the context of logic programming, the study of abductive inference started
at the end of the eighties as an outcome of different attempts to use logic pro-
gramming for solving AI-problems. Facing the limitations of standard logic pro-
gramming for solving these problems, different researchers proposed to extend
logic programming with abduction. Eshghi [28] introduced abduction in logic
programming in order to solve planning problems in the Event Calculus [65]. In
this approach, abduction solves a planning goal by *explaining* it by an ordered
sets of events -a plan- that entails the planning goal. This approach was further
explored by Shanahan [110], Missiaen et al. [72,71], Denecker [21], Jung [48] and
recently in [59,60]. Kakas and Mancarella showed the application of abduction in
logic programming for deductive database updating and knowledge assimilation
[53,55]. The application of abduction to diagnosis has been studied in [10,11]

Pictorial Information Systems Lecture Notes In Computer Science 8

David W. Embley,Antoni Olivé,Sudha Ram

Pictorial Information Systems Lecture Notes In Computer Science 8:

Natural Language Communication with Pictorial Information Systems Leonard Bolc,2012-12-06 This book contains the reports of selected projects involving natural language commu nication with pictorial information systems More than just a record of research results however it presents concrete applications to the solution of a wide variety of problems The authors are all prominent figures in the field whose authoritative contributions help ensure its continued expansion in both size and significance Y C Lee and K S Fu Purdue University USA survey picture query languages which form an interface between the pictorial database system and the user and support infor mation retrieval data entry and manipulation data analysis and output generation They include explicit picture query languages that augment alphanumeric data query langua ges as well as languages and command sets which are implicitly embedded in a pictorial information system but perform similar functions It is worth mentioning that some forms of query languages can be transformed from a given set of natural language senten ces by using ATN Augmented Transition Networks which consequently allows for na turallanguage communication with information system   Experimental Environments For Computer Vision And Image Processing Henrik I Christensen,1994-03-16 To fully appreciate new methods developed in the area of machine vision it is necessary to have facilities which allow experimental verification of such methods Experimental research is typically a very expensive task in terms of manpower and consequently it is desirable to adopt standard facilities methods which allow more efficient experimental investigations In this volume a range of different experimental environments which facilitate construction and integration of machine vision systems is described The environments presented cover areas such as robotics research in individual machine vision methods system integration knowledge representation and distributed computing The set of environments covered include commercial systems public domain software and laboratory prototype showing the diversity of the problem of experimental research in machine vision and providing the reader with an overview of the area   *Database* Y. Kambayashi,1981   Advances in Information Systems Science Julius T. Tou,2012-12-06 Volume 9 of this series on information systems science presents four timely topics of current interest in this growing field In each chapter an attempt is made to familiarize the reader with some basic background information on the advances discussed so that this volume may be used independently or in conjunction with the previous volumes The emphasis in this volume is on data structures for scene analysis database management technology inductive inference in processing pattern based information and logic design of MOS networks Scene analysis has become a very important aspect in information system design The process of scene analysis involves sensing segmentation recognition and interpretation Innovative development of algorithms for these tasks requires the utilization of structural relationship prevalent within the sensed data In Chapter 1 Thomason and Gonzalez discuss the formula tion of data representation techniques and the properties of data structures and databases in scene analysis In view of the growing importance of database management Chapter 2 is devoted to an overview of database

management technology In this chapter Kobayashi covers a variety of current topics The topics discussed include system design methodology data structure theory semantic con siderations calculus based database operations database management functions and the issues of integrity security concurrency and recoverabil ity This chapter also discusses the end user languages and several existing database management systems **Multimedia Information Retrieval and Management** David Feng,W.C. Siu,Hong Jiang Zhang,2013-04-17 Multimedia information technologies which provide comprehensive and intuitive information for a broad range of applications have a strong impact on modem life and have changed our way of learning and thinking Over the past two decades there has been an explosive growth in the use of digital multimedia including audio video images and graphics over the Internet and wireless communication As the use of digital multimedia increases effective data storage and management become increasingly important In fields which use large quantities of data e g audio video image and digital libraries geographical and medical image databases etc we need to minimize the volume of data stored while meeting the often conflicting demand for accurate data representation In addition the data need to be managed such that it facilitates efficient searching browsing and cooperative work This area has been a very active research area in recent years This book will provide readers with an up to date and comprehensive picture of cutting edge technologies in multimedia information retrieval and management which directly affect our industry economy and social life The book is divided into two major parts Technological Fundamentals which covers the core theories of the area and Applications which describes the broad range of practical uses for this technology **Database and Expert Systems Applications** Kim V. Andersen,John Debenham,Roland Wagner,2005-09-14 DEXA 2005 the 16th International Conference on Database and Expert Systems Applications was held at the Copenhagen Business School Copenhagen Denmark from August 22 to 26 2005 The success of the DEXA series has partly been due to the way in which it has kept abreast of recent developments by spawning specialized workshops and conferences each with its own proceedings In 2005 the DEXA programme was co located with the 7th International Conference on Data Warehousing and Knowledge Discovery DaWaK 2005 the 6th International Conference on Electronic Commerce and Web Technologies EC Web 2005 the 4th International Conference on Electronic Government EGOV 2005 the 2nd International Conference on Trust Privacy and Security in Digital Business TrustBus 2005 the 2nd International Conference on Industrial Applications of Holonic and Multi agent Systems HoloMAS 2005 as well as 19 specialized workshops These proceedings are the result of a considerable amount of hard work Beginning with the preparation of submitted papers the papers went through the reviewing process This process was supported by online discussion between the reviewers to determine the final conference program The authors of accepted papers revised their manuscripts to produce this fine collection DEXA 2005 received 390 submissions and from those the Program Committee selected the 92 papers in these proceedings This year the reviewing process generated more than 1000 referee reports The hard work of the authors the referees and the Program Committee is

gratefully acknowledged *Advances in Informatics* Panayiotis Bozanis,2005-10-26 This book constitutes the refereed proceedings of the 10th Panhellenic Conference on Informatics PCI 2005 held in Volas Greece in November 2005 The 83 revised full papers presented were carefully reviewed and selected from 252 submissions The papers are organized in topical sections on data bases and data mining algorithms and theoretical foundations cultural and museum information systems internet scale software information systems wearable and mobile computing computer graphics virtual reality and visualization AI machine learning and knowledge bases languages text and speech processing bioinformatics software engineering educational technologies e business computer and sensor hardware and architecture computer security image and video processing signal processing and telecommunications computer and sensor networks **Conceptual Modeling - ER 2006** David W. Embley,Antoni Olivé,Sudha Ram,2006-10-28 This book constitutes the refereed proceedings of the 25th International Conference on Conceptual Modeling ER 2006 held in Tucson AZ USA in November 2006 The 37 revised full papers presented together with two keynote talks two panel session papers six industrial papers and five demo posters papers were carefully reviewed and selected from 158 submissions **Medical Imaging Systems Technology: Methods in cardiovascular and brain systems** Cornelius T. Leondes,2005 This scholarly set of well harmonized volumes provides indispensable and complete coverage of the exciting and evolving subject of medical imaging systems Leading experts on the international scene tackle the latest cutting edge techniques and technologies in an in depth but eminently clear and readable approach Complementing and intersecting one another each volume offers a comprehensive treatment of substantive importance to the subject areas The chapters in turn address topics in a self contained manner with authoritative introductions useful summaries and detailed reference lists Extensively well illustrated with figures throughout the five volumes as a whole achieve a unique depth and breath of coverage As a cohesive whole or independent of one another the volumes may be acquired as a set or individually *Website Branding for Small Businesses* Nathalie Nahai,2014-04-22 With so many customers taking to the web for information every business needs to have an online presence especially a small business However a simple website won t suffice and each enterprise has to properly connect with customers to build and nurture a relationship that will ensure their devotion to the brand This is where Nathalie Nahai The Web Psychologist steps in Nahai expertly draws from the fields of psychology neuroscience and behavioral economics to share the latest developments innovative techniques and original insights that will lead any small business to online success with information on Targeting the emotional versus the rational brain The psychology of decision making How to pinpoint your target market Communicate persuasively Utilizing images video and colors to grab attention Making a website easy to use Using social media to connect Increase sales through e commerce What makes consumers click on a link In what ways can you target different demographics How do you make the web work for you The tools in this book will give you answers to help develop a compelling influential and profitable online strategy to catapult your brand to the next level Allworth Press an imprint of

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based and knowledge based approaches to system development UML based IS development methodologies XML databases and heterogeneous information models have come to the fore All these fundamental aspects are discussed in this book This publication contains a collection of 22 high quality papers written by 44 authors These articles present original results in modern database technologies database applications data warehousing data mining ontologies and modern information systems Special emphasis is put on multimedia database systems heterogeneous data integration methods view optimizations ontology engineering tools modeling and model transformations MDA Theoretical aspects as well as technical development issues are considered The intended audience for this book is researchers advanced students and practitioners who are interested in advanced topics on databases and information systems   Geographical Information Systems Elaheh Pourabbas,2014-05-16 Web services cloud computing location based services NoSQLdatabases and Semantic Web offer new ways of accessing analyzing and elaborating geo spatial information in both real world and virtual spaces This book explores the how to of the most promising recurrent technologies and trends in GIS such as Semantic GIS Web GIS Mobile GIS NoSQL   Handbook of Digital Forensics of Multimedia Data and Devices Anthony T. S. Ho,Shujun Li,2015-07-24 Digital forensics and multimedia forensics are rapidly growing disciplines whereby electronic information is extracted and interpreted for use in a court of law These two fields are finding increasing importance in law enforcement and the investigation of cybercrime as the ubiquity of personal computing and the internet becomes ever more apparent Digital forensics involves investigating computer systems and digital artefacts in general while multimedia forensics is a sub topic of digital forensics focusing on evidence extracted from both normal computer systems and special multimedia devices such as digital cameras This book focuses on the interface between digital forensics and multimedia forensics bringing two closely related fields of forensic expertise together to identify and understand the current state of the art in digital forensic investigation Both fields are expertly attended to by contributions from researchers and forensic practitioners specializing in diverse topics such as forensic authentication forensic triage forensic photogrammetry biometric forensics multimedia device identification and image forgery detection among many others Key features Brings digital and multimedia forensics together with contributions from academia law enforcement and the digital forensics industry for extensive coverage of all the major aspects of digital forensics of multimedia data and devices Provides comprehensive and authoritative coverage of digital forensics of multimedia data and devices Offers not only explanations of techniques but also real world and simulated case studies to illustrate how digital and multimedia forensics techniques work Includes a companion website hosting continually updated supplementary materials ranging from extended and updated coverage of standards to best practice guides test datasets and more case studies   **Mathematics of the Decision Sciences** George Bernard Dantzig,Arthur F. Veinott,1968-12-31   *Neutrosophic Sets and Systems, vol. 13/2016* Florentin Smarandache,Mumtaz Ali, Neutrosophic Sets and Systems has been created for publications on advanced studies in neutrosophy neutrosophic set neutrosophic logic neutrosophic

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