

Retroactive Recognition of Interleaved Plans for Natural Language Dialogue

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Abstract

State of the art plan recognition for use in natural language dialogue systems has progressed in coverage of discourse phenomena and plan navigation strategies. Most systems, however, suffer from several deficiencies, namely, they do not have a specific strategy for the (inevitable) case where they make an incorrect hypothesis inference and they cannot handle interleaved plan navigation, where a user jumps back and forth between several plans. In addition, most plan recognition systems cannot handle the rich variety of possible natural language utterances a dialogue system may receive as input, especially the case where a language utterance corresponds to several actions which the system considers to be atomic. We discuss previous work in plan recognition, especially in the area of dialogues systems. We then describe a plan recognition system which can recover from incorrect inferences, handles interleaved plan navigation, and handles several linguistic phenomena, including support for natural language multi-action paraphrase.

Plan Recognition In Natural Language Dialogue

Sandra Carberry



Plan Recognition In Natural Language Dialogue:

Plan Recognition in Natural Language Dialogue Sandra Carberry, 1990 Sandra Carberry addresses the problem of creating computational strategies that can improve user computer communication by assimilating ongoing dialogue and reasoning on the acquired knowledge In most current natural language systems each query is treated as an isolated request for information regardless of its context in dialogue Sandra Carberry addresses the problem of creating computational strategies that can improve user computer communication by assimilating ongoing dialogue and reasoning on the acquired knowledge Plan Recognition in Natural Language Dialogue critically examines plan recognition the inference of an agent's goals and how he or she intends to achieve them It describes significant models of plan inference and presents in detail the author's own model which infers new goals from user utterances and integrates them into the system's model of the user's plan incrementally expanding and adding detail to its beliefs about what the information seeker wants to do Carberry then outlines computational strategies for interpreting two kinds of problematic utterances utterances that violate the pragmatic rules of the system's world model and intersentential elliptical fragments She also suggests directions for future research Plan Recognition in Natural Language Dialogue is included in the ACL MIT Press Series in Natural Language Processing edited by Aravind Joshi

Introduction to Symbolic Plan and Goal Recognition Reuth Mirsky, Sarah Keren, Christopher Geib, 2022-05-31 Plan recognition activity recognition and goal recognition all involve making inferences about other actors based on observations of their interactions with the environment and other agents This synergistic area of research combines unites and makes use of techniques and research from a wide range of areas including user modeling machine vision automated planning intelligent user interfaces human computer interaction autonomous and multi agent systems natural language understanding and machine learning It plays a crucial role in a wide variety of applications including assistive technology software assistants computer and network security human robot collaboration natural language processing video games and many more This wide range of applications and disciplines has produced a wealth of ideas models tools and results in the recognition literature However it has also contributed to fragmentation in the field with researchers publishing relevant results in a wide spectrum of journals and conferences This book seeks to address this fragmentation by providing a high level introduction and historical overview of the plan and goal recognition literature It provides a description of the core elements that comprise these recognition problems and practical advice for modeling them In particular we define and distinguish the different recognition tasks We formalize the major approaches to modeling these problems using a single motivating example Finally we describe a number of state of the art systems and their extensions future challenges and some potential applications

The Structure of Multimodal Dialogue II M. M. Taylor, F. Néel, Don G. Bouwhuis, 2000 Most dialogues are multimodal When people talk they use not only their voices but also facial expressions and other gestures and perhaps even touch When computers communicate with people they use pictures and perhaps sounds together with textual

language and when people communicate with computers they are likely to use mouse gestures almost as much as words How are such multimodal dialogues constructed This is the main question addressed in this selection of papers of the second Venaco Workshop sponsored by the NATO Research Study Group RSG 10 on Automatic Speech Processing and by the European Speech Communication Association ESCA Plan, Activity, and Intent Recognition Gita Sukthankar, Christopher Geib, Hung Hai Bui, David Pynadath, Robert P. Goldman, 2014-03-03 Plan recognition activity recognition and intent recognition together combine and unify techniques from user modeling machine vision intelligent user interfaces human computer interaction autonomous and multi agent systems natural language understanding and machine learning Plan Activity and Intent Recognition explains the crucial role of these techniques in a wide variety of applications including personal agent assistants computer and network security opponent modeling in games and simulation systems coordination in robots and software agents web e commerce and collaborative filtering dialog modeling video surveillance smart homes In this book follow the history of this research area and witness exciting new developments in the field made possible by improved sensors increased computational power and new application areas Combines basic theory on algorithms for plan activity recognition along with results from recent workshops and seminars Explains how to interpret and recognize plans and activities from sensor data Provides valuable background knowledge and assembles key concepts into one guide for researchers or students studying these disciplines **Natural Language Generation in Interactive Systems** Amanda Stent, Srinivas Bangalore, 2014-06-12 An informative and comprehensive overview of the state of the art in natural language generation NLG for interactive systems this guide serves to introduce graduate students and new researchers to the field of natural language processing and artificial intelligence while inspiring them with ideas for future research Detailing the techniques and challenges of NLG for interactive applications it focuses on the research into systems that model collaborativity and uncertainty are capable of being scaled incrementally and can engage with the user effectively A range of real world case studies is also included The book and the accompanying website feature a comprehensive bibliography and refer the reader to corpora data software and other resources for pursuing research on natural language generation and interactive systems including dialog systems multimodal interfaces and assistive technologies It is an ideal resource for students and researchers in computational linguistics natural language processing and related fields **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 **Handbook of Natural Language Processing** Robert Dale, Hermann Moisl, Harold Somers, 2000-07-25 This study explores the design and application of natural language text based processing systems based on generative linguistics empirical corpus analysis and artificial neural networks It emphasizes the practical tools to accommodate the selected system Brevity Laurence Goldstein, 2013-10-03 Brevity in conversation is a window to

the workings of the mind This book brings it into prominence as both a multifaceted topic of deep philosophical importance and a phenomenon that serves as a testing ground for theories in linguistics psycholinguistics and computer modeling Brevity is achieved in a variety of ways Speakers use elliptical constructions and exploit salient features of the conversational environment in a process of pragmatic enrichment so as to pack as much as possible into a few words They take account of what has already been said in the current and previous conversations and tailor their words to what they know about the beliefs and personalities of the people they re talking to Most of the time they do all this with no obvious mental effort The book which brings together distinguished linguists philosophers and cognitive scientists is the product of an interactive multidisciplinary research project that extended over four years The questions dealt with concern how speakers secure understanding of what they mean when what they mean far outstrips the literal or compositional meanings of the sentences or sentence fragments that they use Brevity sheds new light on economy in discourse It will appeal to linguists philosophers and psychologists at advanced undergraduate level and above

Handbook of Pragmatics Jef Verschueren, Jan-Ola

Östman, 2022-08-15 The Manual section of the Handbook of Pragmatics produced under the auspices of the International Pragmatics Association IPrA is a collection of articles describing traditions methods and notational systems relevant to the field of linguistic pragmatics the main body of the Handbook contains all topical articles The first edition of the Manual was published in 1995 This second edition includes a large number of new traditions and methods articles from the 24 annual installments of the Handbook that have been published so far It also includes revised versions of some of the entries in the first edition In addition a cumulative index provides cross references to related topical entries in the annual installments of the Handbook and the Handbook of Pragmatics Online at <https://benjamins.com/online/hop> which continues to be updated and expanded This second edition of the Manual is intended to facilitate access to the most comprehensive resource available today for any scholar interested in pragmatics as defined by the International Pragmatics Association the science of language use in its widest interdisciplinary sense as a functional i e cognitive social and cultural perspective on language and communication

Explaining Communication Bryan B. Whaley, Wendy Samter, 2013-03-07 Offering a direct sightline into communication theory Explaining Communication provides in depth discussions of communication theories by some of the foremost scholars working in communication today With contributions from the original theorists and scholars known for their work in specific theoretical perspectives this distinctive text breaks new ground in giving these scholars the opportunity to address students firsthand speaking directly to the coming generations of communication scholars Covering a wide range of interpersonal communication theories the scope of this exceptional volume includes the nature of theory and fundamental concepts in interpersonal communication theories accounting for individual differences in message production explanations of human communication from dyadic relational and or cultural levels and a history of communication theory Chapter authors offer their own views of the core ideas and findings of specific theoretical perspectives discussing the phenomena those

perspectives are best positioned to explain how the theories fit into the field and where future research efforts are best placed While by no means comprehensive Explaining Communication includes those theories that rank among those most often used in today s work that have generated a substantial body of knowledge over time and that have not been articulated in detail in other publications With detailed explorations and first hand discussions of major communication theories this volume is essential for students in communication studies interpersonal communication and advanced theory courses as well as for scholars needing a thorough reference to some of the most salient theories in communication today

Educational Data Mining Alejandro Peña-Ayala,2013-11-08 This book is devoted to the Educational Data Mining arena It highlights works that show relevant proposals developments and achievements that shape trends and inspire future research After a rigorous revision process sixteen manuscripts were accepted and organized into four parts as follows Profile The first part embraces three chapters oriented to 1 describe the nature of educational data mining EDM 2 describe how to pre process raw data to facilitate data mining DM 3 explain how EDM supports government policies to enhance education Student modeling The second part contains five chapters concerned with 4 explore the factors having an impact on the student s academic success 5 detect student s personality and behaviors in an educational game 6 predict students performance to adjust content and strategies 7 identify students who will most benefit from tutor support 8 hypothesize the student answer correctness based on eye metrics and mouse click Assessment The third part has four chapters related to 9 analyze the coherence of student research proposals 10 automatically generate tests based on competences 11 recognize students activities and visualize these activities for being presented to teachers 12 find the most dependent test items in students response data Trends The fourth part encompasses four chapters about how to 13 mine text for assessing students productions and supporting teachers 14 scan student comments by statistical and text mining techniques 15 sketch a social network analysis SNA to discover student behavior profiles and depict models about their collaboration 16 evaluate the structure of interactions between the students in social networks This volume will be a source of interest to researchers practitioners professors and postgraduate students aimed at updating their knowledge and find targets for future work in the field of educational data mining

An Introduction to Language Processing with Perl and Prolog Pierre M. Nugues,2006-11-22 The areas of natural language processing and computational linguistics have continued to grow in recent years driven by the demand to automatically process text and spoken data With the processing power and techniques now available research is scaling up from lab prototypes to real world proven applications This book teaches the principles of natural language processing first covering linguistics issues such as encoding entropy and annotation schemes defining words tokens and parts of speech and morphology It then details the language processing functions involved including part of speech tagging using rules and stochastic techniques using Prolog to write phase structure grammars parsing techniques and syntactic formalisms semantics predicate logic and lexical semantics and analysis of discourse and applications in dialog systems The key feature

of the book is the author's hands-on approach throughout with extensive exercises sample code in Prolog and Perl and a detailed introduction to Prolog The reader is supported with a companion website that contains teaching slides programs and additional material The book is suitable for researchers and students of natural language processing and computational linguistics **Computational Models of Mixed-Initiative Interaction** Susan Haller, Susan McRoy, Alfred

Kobsa, 2013-11-11 Computational Models of Mixed Initiative Interaction brings together research that spans several disciplines related to artificial intelligence including natural language processing information retrieval machine learning planning and computer aided instruction to account for the role that mixed initiative plays in the design of intelligent systems The ten contributions address the single issue of how control of an interaction should be managed when abilities needed to solve a problem are distributed among collaborating agents Managing control of an interaction among humans and computers to gather and assemble knowledge and expertise is a major challenge that must be met to develop machines that effectively collaborate with humans This is the first collection to specifically address this issue *Intentions in*

Communication Philip R. Cohen, Jerry L. Morgan, Martha E. Pollack, 1990 Intentions in Communication brings together major theorists from artificial intelligence and computer science linguistics philosophy and psychology whose work develops the foundations for an account of the role of intentions in a comprehensive theory of communication It demonstrates for the first time the emerging cooperation among disciplines concerned with the fundamental role of intention in communication The fourteen contributions in this book address central questions about the nature of intention as it is understood in theories of communication the crucial role of intention recognition in understanding utterances the use of principles of rational interaction in interpreting speech acts the contribution of intonation contours to intention recognition and the need for more general models of intention that support a view of dialogue as a collaborative activity The contributors are Michael E Bratman Philip R Cohen Hector J Levesque Martha E Pollack Henry Kautz Andrew J I Jones C Raymond Perrault Daniel Vanderveken Janet Pierrehumbert Julia Hirschberg Richmond H Thomason Diane J Litman James F Allen John R Searle Barbara J Grosz Candace L Sidner Herbert H Clark and Deanna Wilkes Gibbs The book also includes commentaries by James F Allen W A Woods Jerry Morgan Jerrold M Sadock Jerry R Hobbs and Kent Bach Philip R Cohen is a Senior Computer Scientist at the Artificial Intelligence Center at SRI International and is a Senior Researcher with the Center for the Study of Language and Information Jerry Morgan is Associate Professor Department of Linguistics and Beckman Institute for Advanced Science and Technology at the University of Illinois Martha E Pollack is a Computer Scientist at the Artificial Intelligence Center at SRI International and is a Senior Researcher with the Center for the Study of Language and Information Intentions in Communication is included in the System Development Foundation Benchmark Series National

Library of Medicine Current Catalog National Library of Medicine (U.S.), 1991 **A Theory of Narrative Drawing** Simon Grennan, 2017-06-29 This book offers an original new conception of visual story telling proposing that drawing depictive

drawing and narrative drawing are produced in an encompassing dialogic system of embodied social behavior It refigures the existing descriptions of visual story telling that pause with theorizations of perception and the articulation of form The book identifies and examines key issues in the field including the relationships between vision visualization and imagination the theoretical remediation of linguistic and narratological concepts the systematization of discourse the production of the subject idea and institution and the significance of resources of the body in depiction representation and narrative It then tests this new conception in practice two original visual demonstrations clarify the particular dialectic relationships between subjects and media in an examination of drawing style and genre social consensus and self conscious constraint The book s originality derives from its clear articulation of a wide range of sources in proposing a conception of narrative drawing and the extrapolation of this new conception in two new visual demonstrations *Summary of Awards* ,1991 **Intelligent**

Agents II - Agent Theories, Architectures, and Languages Michael J. Wooldridge,Jörg P. Müller,Milind Tambe,1996 This book is based on the second International Workshop on Agent Theories Architectures and Languages held in conjunction with the International Joint Conference on Artificial Intelligence IJCAI 95 in Montreal Canada in August 1995 The 26 papers are revised final versions of the workshop presentations selected from a total of 54 submissions also included is a comprehensive introduction a detailed bibliography listing 355 relevant publications and a subject index The book is structured into seven sections reflecting the most current major directions in agent related research Together with its predecessor Intelligent Agents published as volume 890 in the LNAI series this book provides a timely and comprehensive state of the art report

Trends in Natural Language Generation - An Artificial Intelligence Perspective Giovanni Adorni,Michael Zock,1996-03-13 This proceedings volume gives an up to date overview of the most recent results in the field of plant molecular response to environmental constraints especially heat cold water drought salt or light It centers on molecular approaches in understanding the bases of plant tolerance to physical stresses links among different environmental stresses and the manipulation of gene expression by recombinant DNA technology to obtain tolerant transgenic plants Dialog Theory for Critical Argumentation Douglas N. Walton,2007 Because of the need to devise systems for electronic communication on the internet multi agent computing is moving to a model of communication as a structured conversation between rational agents For example in multi agent systems an electronic agent searches around the internet and collects certain kinds of information by asking questions to other agents Such agents also reason with each other when they engage in negotiation and persuasion It is shown in this book that critical argumentation is best represented in this framework by the model of reasoned argument called a dialog in which two or more parties engage in a polite and orderly exchange with each other according to rules governed by conversation policies In such dialog argumentation the two parties reason together by taking turns asking questions offering replies and offering reasons to support a claim They try to settle their disagreements by an orderly conversational exchange that is partly adversarial and partly collaborative

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