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NEW DEVELOPMENTS IN PARSING TECHNOLOGY

Edited by Harry Bunt, John Carroll and Giorgio Satta

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New Developments In Parsing Technology Text Speech And Language Technology

Michael Mateas

New Developments In Parsing Technology Text Speech And Language Technology:

New Developments in Parsing Technology H. Bunt,John Carroll,Giorgio Satta,2005-02-15 This volume is of specific interest to researchers advanced undergraduate students graduate students and teachers in the following areas Computational Linguistics Artificial Intelligence Computer Science Language Engineering Information Science and Cognitive Science It will also be of interest to designers developers and advanced users of natural language processing software and systems including applications such as machine translation information extraction spoken dialogue multimodal human computer interaction text mining and semantic web technology Jacket **New Developments in Parsing Technology** H. Bunt,John Carroll,Giorgio Satta,2004-06-29 Parsing can be defined as the decomposition of complex structures into their constituent parts and parsing technology as the methods the tools and the software to parse automatically Parsing is a central area of research in the automatic processing of human language Parsers are being used in many application areas for example question answering extraction of information from text speech recognition and understanding and machine translation New developments in parsing technology are thus widely applicable This book contains contributions from many of today s leading researchers in the area of natural language parsing technology The contributors describe their most recent work and a diverse range of techniques and results This collection provides an excellent picture of the current state of affairs in this area This volume is the third in a series of such collections and its breadth of coverage should make it suitable both as an overview of the current state of the field for graduate students and as a reference for established researchers Trends in Parsing Technology Harry Bunt,Paola Merlo,Joakim Nivre,2010-10-06 Computer parsing technology which breaks down complex linguistic structures into their constituent parts is a key research area in the automatic processing of human language This volume is a collection of contributions from leading researchers in the field of natural language processing technology each of whom detail their recent work which includes new techniques as well as results The book presents an overview of the state of the art in current research into parsing technologies focusing on three important themes dependency parsing domain adaptation and deep parsing The technology which has a variety of practical uses is especially concerned with the methods tools and software that can be used to parse automatically Applications include extracting information from free text or speech question answering speech recognition and comprehension recommender systems machine translation and automatic summarization New developments in the area of parsing technology are thus widely applicable and researchers and professionals from a number of fields will find the material here required reading As well as the other four volumes on parsing technology in this series this book has a breadth of coverage that makes it suitable both as an overview of the field for graduate students and as a reference for established researchers in computational linguistics artificial intelligence computer science language engineering information science and cognitive science It will also be of interest to designers developers and advanced users of natural language processing systems including applications such as spoken

dialogue text mining multimodal human computer interaction and semantic web technology **Advances in Natural Multimodal Dialogue Systems** Jan van Kuppevelt,Laila Dybkjær,Niels Ole Bernsen,2006-06-28 References 74 Part II Annotation and Analysis of Multimodal Data Speech and Gesture 4 FORM 79 Craig H Martell 1 Introduction 79 2 Structure of FORM 80 3 Annotation Graphs 85 4 Annotation Example 86 5 Preliminary Inter Annotator Agreement Results 88 6 Conclusion Applications to HLT and HCI 90 Appendix Other Tools Schemes and Methods of Gesture Analysis 91 References 95 5 97 On the Relationships among Speech Gestures and Object Manipulation in Virtual Environments Initial Evidence Andrea Corradini and Philip R Cohen 1 Introduction 97 2 Study 99 3 Data Analysis 101 4 Results 103 5 Discussion 106 6 Related Work 106 7 Future Work 108 8 Conclusions 108 Appendix Questionnaire MYST III EXILE 110 References 111 6 113 Analysing Multimodal Communication Patrick G T Healey Marcus Colman and Mike Thirlwell 1 Introduction 113 2 Breakdown and Repair 117 3 Analysing Communicative Co ordination 125 4 Discussion 126 References 127 7 131 Do Oral Messages Help Visual Search No lle Carbonell and Suzanne Kieffer 1 Context and Motivation 131 2 Methodology and Experimental Set Up 134 3 Results Presentation and Discussion 141 4 Conclusion 153 References 154 Contents vii 8 159 Geometric and Statistical Approaches to Audiovisual Segmentation Trevor Darrell John W Fisher III Kevin W Wilson and Michael R Siracusa 1 Introduction 159 2 Related Work 160 3 Multimodal Multisensor Domain 162 4 Results 166 5 Single Multimodal Sensor Domain 167 6 Word Sense Disambiguation Eneko Agirre,Philip Edmonds,2007-11-16 Graeme Hirst University of Toronto Of the many kinds of ambiguity in language the two that have received the most attention in computational linguistics are those of word senses and those of syntactic structure and the reasons for this are clear these ambiguities are overt their resolution is seemingly essential for any prac cal application and they seem to require a wide variety of methods and knowledge sources with no pattern apparent in what any particular stance requires Right at the birth of artificial intelligence in his 1950 paper Computing machinery and intelligence Alan Turing saw the ability to understand language as an essential test of intelligence and an essential test of l guage understanding was an ability to disambiguate his example involved deciding between the generic and specific readings of the phrase a winter s day The first generations of AI researchers found it easy to construct amples of ambiguities whose resolution seemed to require vast knowledge and deep understanding of the world and complex inference on this kno edge for example Pharmacists dispense with accuracy The disambig tion problem was in a way nothing less than the artificial intelligence problem itself No use was seen for a disambiguation method that was less than 100% perfect either it worked or it didn t Lexical resources such as they were were considered secondary to non linguistic common sense knowledge of the world *Spoken Multimodal Human-Computer Dialogue in Mobile Environments* Wolfgang Minker,Dirk Bühler,Laila Dybkjær,2005-08-17 This book is based on publications from the ISCA Tutorial and Research Workshop on Multi Modal Dialogue in Mobile Environments held at Kloster Irsee Germany in 2002 The workshop covered various aspects of devel ment and evaluation of spoken multimodal

dialogue systems and components with particular emphasis on mobile environments and discussed the state the art within this area On the development side the major aspects addressed include speech recognition dialogue management multimodal output gene tion system architectures full applications and user interface issues On the evaluation side primarily usability evaluation was addressed A number of high quality papers from the workshop were selected to form the basis of this book The volume is divided into three major parts which group together the ov all aspects covered by the workshop The selected papers have all been tended reviewed and improved after the workshop to form the backbone of the book In addition we have supplemented each of the three parts by an invited contribution intended to serve as an overview chapter Multimodal Intelligent Information Presentation Oliviero Stock,Massimo Zancanaro,2005-02-15 Intelligent Multimodal Information Presentation relates to the ability of a computer system to automatically produce interactive information presentations taking into account the specifics about the user such as needs interests and knowledge and engaging in a collaborative interaction that helps the retrieval of relevant information and its understanding on the part of the user The volume includes descriptions of some of the most representative recent works on Intelligent Information Presentation and a view of the challenges ahead **Handbook of Natural Language Processing** Nitin Indurkhya,Fred J. Damerau,2010-02-22 The Handbook of Natural Language Processing Second Edition presents practical tools and techniques for implementing natural language processing in computer systems Along with removing outdated material this edition updates every chapter and expands the content to include emerging areas such as sentiment analysis New to the Second EditionGreater *ACM Transactions on Programming Languages and Systems* Association for Computing Machinery,2006 Meeting Handbook Linguistic Society of America,1998 **Language Technology** ,1989 **Interactive Drama, Art and Artificial Intelligence** Michael Mateas,2002 **American Book Publishing Record** ,2003 **Recent Advances in Parsing Technology** H. Bunt,Masaru Tomita,1996-08-31 In Marcus 1980 deterministic parsers were introduced These are parsers which satisfy the conditions of Marcus s determinism hypothesis i e they are strongly deterministic in the sense that they do not simulate non determinism in any way In later work Marcus et al 1983 these parsers were modified to construct descriptions of trees rather than the trees them selves The resulting D theory parsers by working with these descriptions are capable of capturing a certain amount of ambiguity in the structures they build In this context it is not clear what it means for a parser to meet the conditions of the determinism hypothesis The object of this work is to clarify this and other issues pertaining to D theory parsers and to provide a framework within which these issues can be examined formally Thus we have a very narrow scope We make no ar guments about the linguistic issues D theory parsers are meant to address their relation to other parsing formalisms or the notion of determinism in general Rather we focus on issues internal to D theory parsers themselves Advances in Probabilistic and Other Parsing Technologies H. Bunt,Anton Nijholt,2013-03-09 Parsing technology is concerned with finding syntactic structure in language In parsing we have to deal with incomplete and not

necessarily accurate formal descriptions of natural languages Robustness and efficiency are among the main issuesin parsing Corpora can be used to obtain frequency information about language use This allows probabilistic parsing an approach that aims at both robustness and efficiency increase Approximation techniques to be applied at the level of language description parsing strategy and syntactic representation have the same objective Approximation at the level of syntactic representation is also known as underspecification a traditional technique to deal with syntactic ambiguity In this book new parsing technologies are collected that aim at attacking the problems of robustness and efficiency by exactly these techniques the design of probabilistic grammars and efficient probabilistic parsing algorithms approximation techniques applied to grammars and parsers to increase parsing efficiency and techniques for underspecification and the integration of semantic information in the syntactic analysis to deal with massive ambiguity The book gives a state of the art overview of current research and development in parsing technologies In its chapters we see how probabilistic methods have entered the toolbox of computational linguistics in order to be applied in both parsing theory and parsing practice The book is both a unique reference for researchers and an introduction to the field for interested graduate students **Whitaker's Books in Print** ,1998 *Recent Developments and Applications of Natural Language Processing* Jeremy Peckham,1989 **Human Language Technology** ,1994 **Computational Linguistics in the Netherlands ...** ,1998 **The British National Bibliography** Arthur James Wells,2006

Decoding **New Developments In Parsing Technology Text Speech And Language Technology**: Revealing the Captivating Potential of Verbal Expression

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