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Approaches to Language

The Balancing Combining Symbolic And Statistical Approaches To Language

Judith L. Klavans,Philip Resnik

The Balancing Combining Symbolic And Statistical Approaches To Language:

The Balancing Act Judith L. Klavans,Philip Resnik,1996 Symbolic and statistical approaches to language have historically been at odds the former viewed as difficult to test and therefore perhaps impossible to define and the latter as descriptive but possibly inadequate At the heart of the debate are fundamental questions concerning the nature of language the role of data in building a model or theory and the impact of the competence performance distinction on the field of computational linguistics There is an increasing realization in both camps that the two approaches have something to offer in achieving common goals   *The Balancing Act* Judith L. Klavans,Philip Resnik,1996   The Handbook of Computational Linguistics and Natural Language Processing Alexander Clark,Chris Fox,Shalom Lappin,2013-04-24 This comprehensive reference work provides an overview of the concepts methodologies and applications in computational linguistics and natural language processing NLP Features contributions by the top researchers in the field reflecting the work that is driving the discipline forward Includes an introduction to the major theoretical issues in these fields as well as the central engineering applications that the work has produced Presents the major developments in an accessible way explaining the close connection between scientific understanding of the computational properties of natural language and the creation of effective language technologies Serves as an invaluable state of the art reference source for computational linguists and software engineers developing NLP applications in industrial research and development labs of software companies   The Human Factor in Machine Translation Sin-wai Chan,2018-05-08 Machine translation has become increasingly popular especially with the introduction of neural machine translation in major online translation systems However despite the rapid advances in machine translation the role of a human translator remains crucial As illustrated by the chapters in this book man machine interaction is essential in machine translation localisation terminology management and crowdsourcing translation In fact the importance of a human translator before during and after machine processing cannot be overemphasised as human intervention is the best way to ensure the translation quality of machine translation This volume explores the role of a human translator in machine translation from various perspectives affording a comprehensive look at this topical research area This book is essential reading for anyone involved in translation studies machine translation or interested in translation technology   *Type-Logical Semantics* Bob Carpenter,1998-07-24 Based on an introductory course on natural language semantics this book provides an introduction to type logical grammar and the range of linguistic phenomena that can be handled in categorial grammar It also contains a great deal of original work on categorial grammar and its application to natural language semantics The author chose the type logical categorial grammar as his grammatical basis because of its broad syntactic coverage and its strong linkage of syntax and semantics Although its basic orientation is linguistic the book should also be of interest to logicians and computer scientists seeking connections between logical systems and natural language The book which stepwise develops successively more powerful logical and grammatical

systems covers an unusually broad range of material Topics covered include higher order logic applicative categorial grammar the Lambek calculus coordination and unbounded dependencies quantifiers and scope plurals pronouns and dependency modal logic intensionality and tense and aspect The book contains more mathematical development than is usually found in texts on natural language an appendix includes the basic mathematical concepts used throughout the book

Terminology Saturation Victoria Kosa,Vadim Ermolayev,2022-02-16 This book highlights an innovative approach for extracting terminological cores from subject domain bounded collections of professional texts The approach is based on exploiting the phenomenon of terminological saturation The book presents the formal framework for the method of detecting and measuring terminological saturation as a successive approximation process It further offers the suite of the algorithms that implement the method in the software and comprehensively evaluates all the aspects of the method and possible input configurations in the experiments on synthetic and real collections of texts in several subject domains The book demonstrates the use of the developed method and software pipeline in industrial and academic use cases It also outlines the potential benefits of the method for the adoption in industry *Syntactic Form and Discourse Function in Natural Language Generation* Cassandre Creswell,2004-12-24 Users of natural languages have many word orders with which to encode the same truth conditional meaning They choose contextually appropriate strings from these many ways with little conscious effort and with effective communicative results Previous computational models of when English speakers produce non canonical word orders like topicalization left dislocation and clefts fail The primary goal of this book is to present a better model of when speakers choose to produce certain non canonical word orders by incorporating the effects of discourse context and speaker goals on syntactic choice This book makes extensive use of previously unexamined naturally occurring corpus data of non canonical word order in English both to illustrate the points of the theoretical model and to train the statistical model The Oxford Handbook of Developmental Linguistics Jeffrey Lidz,William Snyder,Joe Pater,2016-07-28 In this handbook renowned scholars from a range of backgrounds provide a state of the art review of key developmental findings in language acquisition The book places language acquisition phenomena in a richly linguistic and comparative context highlighting the link between linguistic theory language development and theories of learning The book is divided into six parts Parts I and II examine the acquisition of phonology and morphology respectively with chapters covering topics such as phonotactics and syllable structure prosodic phenomena compound word formation and processing continuous speech Part III moves on to the acquisition of syntax including argument structure questions mood alternations and possessives In Part IV chapters consider semantic aspects of language acquisition including the expression of genericity quantification and scalar implicature Finally Parts V and VI look at theories of learning and aspects of atypical language development respectively *Corpus Linguistics. Volume 2* Anke Lüdeling,Merja Kytö,2009-03-26 This handbook provides an up to date survey of the field of corpus linguistics a field whose methodology has revolutionized much of the empirical work

done in most fields of linguistic study over the past decade Corpus linguistics investigates human language by starting out from large collections of texts spoken written or recorded These language corpora which are now regularly available in electronic form are the basis for quantitative and qualitative research on almost any question of linguistic interest Many techniques that are in use in corpus linguistics today are rooted in the tradition of the late 18th and 19th century when linguistics began to make use of mathematical and empirical methods Modern corpus linguistics has used and developed these methods in close connection with computer science and computational linguistics The handbook sketches the history of corpus linguistics shows its potential discusses its problems and describes various methods of collecting annotating and searching corpora as well as processing corpus data It also reports case studies that illustrate the wide range of linguistic research questions addressed in corpus linguistics The over 60 articles included in the handbook are divided into five sections 1 the origins and history of corpus linguistics and surveys of its relationship to central fields of linguistics 2 corpus compilation 3 corpus types 4 preprocessing of corpora 5 the use and exploitation of corpora The final section gives an overview of the results of corpus studies obtained in phonetics phonology morphology syntax semantics sociolinguistics historical linguistics stylometry dialectology and discourse analysis It also reports on recent advances made in human and machine translation contrastive studies computer assisted language learning and automatic summarization The contributors to the volume are internationally known experts in their respective fields The handbook is intended for a wide audience ranging from teachers university students and scholars to anyone interested in the use of computers in linguistic analyses and applications *Grammatical Theory and Bilingual Codeswitching* Jeff MacSwan,2014-12-05 Part III Codeswitching and the LF Interface 9 The Semantic Interpretation and Syntactic Distribution of Determiner Phrases in Spanish English Codeswitching 10 Codeswitching and the Syntax Semantics Interface Part IV Codeswitching and Language Processing 11 A Minimalist Parsing Model for Codeswitching 12 Language Dominance and Codeswitching Asymmetries Contributors Index

Progressives, Patterns, Pedagogy Ute Römer,2005-08-18 This book presents a large scale corpus driven study of progressives in real English and school English combining an analysis of general linguistic interest with a pedagogically motivated one A systematic comparative analysis of more than 10 000 progressive forms taken from the largest existing corpora of spoken British English and from a small corpus of EFL textbook texts highlights numerous differences between actual language use and textbook language concerning the distribution of progressives their preferred contexts favoured functions and typical lexical grammatical patterns On the basis of these differences a number of pedagogical implications are derived the integration of which then leads to a first draft of an innovative concept of teaching progressives a concept which responds to three key criteria in pedagogical description typicality authenticity and communicative utility The analysis also demonstrates that many existing accounts of the progressive are inappropriate in several respects and that not enough attention is being paid to lexical grammatical relations Winner of the Wissenschaftspreis Hannover 2006 for outstanding

research monographs   *Language and Space* Paul Bloom,1999 The 15 essays in this volume bring together research and theoretical viewpoints in the areas of psychology linguistics anthropology and neuroscience presenting a synthesis across these diverse domains Throughout authors address and debate each others arguments and theories   **Sensorimotor Cognition and Natural Language Syntax** Alistair Knott,2012-11-02 A proposal that the syntactic structure of a sentence reporting a concrete episode in the world can be interpreted as a description of the sensorimotor processes involved in experiencing that episode How is the information we gather from the world through our sensory and motor apparatus converted into language It is obvious that there is an interface between language and sensorimotor cognition because we can talk about what we see and do In this book Alistair Knott argues that this interface is more direct than commonly assumed He proposes that the syntax of a concrete sentence a sentence that reports a direct sensorimotor experience closely reflects the sensorimotor processes involved in the experience In fact he argues the syntax of the sentence can be interpreted as a description of these sensorimotor processes Knott focuses on a simple concrete episode a man grabbing a cup He presents detailed models of the sensorimotor processes involved in experiencing this episode drawing on research in psychology and neuroscience and of the syntactic structure of the transitive sentence reporting the episode drawing on Chomskyan Minimalist syntactic theory He proposes that these two independently motivated models are closely linked that the logical form of the sentence can be given a detailed sensorimotor characterization and that more generally many of the syntactic principles understood in Minimalism as encoding innate linguistic knowledge are actually sensorimotor in origin Knott s sensorimotor reinterpretation of Chomsky opens the way for a psychological account of sentence processing that is compatible with a Chomskyan account of syntactic universals suggesting a way to reconcile Chomsky s theory of syntax with the empiricist models of language often viewed as Mimimalism s competitors   **Natural Language Processing Using Very Large Corpora** S. Armstrong,Kenneth W. Church,Pierre Isabelle,Sandra Manzi,Evelyne Tzoukermann,David Yarowsky,2013-04-17 ABOUT THIS BOOK This book is intended for researchers who want to keep abreast of cur rent developments in corpus based natural language processing It is not meant as an introduction to this field for readers who need one several entry level texts are available including those of Church and Mercer 1993 Charniak 1993 Jelinek 1997 This book captures the essence of a series of highly successful work shops held in the last few years The response in 1993 to the initial Workshop on Very Large Corpora Columbus Ohio was so enthusias tic that we were encouraged to make it an annual event The following year we staged the Second Workshop on Very Large Corpora in Ky oto As a way of managing these annual workshops we then decided to register a special interest group called SIGDAT with the Association for Computational Linguistics The demand for international forums on corpus based NLP has been expanding so rapidly that in 1995 SIGDAT was led to organize not only the Third Workshop on Very Large Corpora Cambridge Mass but also a complementary workshop entitled From Texts to Tags Dublin Obviously the success of these workshops was in some measure a re flection of

the growing popularity of corpus based methods in the NLP community But first and foremost it was due to the fact that the work shops attracted so many high quality papers   Knowledge Engineering and Knowledge Management. Methods, Models, and Tools Rose Dieng,Olivier Corby,2000-09-20 This book constitutes the refereed proceedings of the 12th International Conference on Knowledge Engineering and Knowledge Management EKAW 2000 held in Juan les Pins France in October 2000 The 28 revised full papers and six revised short papers presented were carefully reviewed and selected from a high number of high quality submissions The book offers topical sections on knowledge modeling languages and tools ontologies knowledge acquisition from texts machine learning knowledge management and electronic commerce problem solving methods knowledge representation validation evaluation and certification and methodologies   *Possible and Probable Languages* Frederick J. Newmeyer,2005-10-13 In this important and pioneering book Frederick Newmeyer takes on the question of language variety He considers why some language types are impossible and why some grammatical features are more common than others The task of trying to explain typological variation among languages has been mainly undertaken by functionally oriented linguists Generative grammarians entering the field of typology in the 1980s put forward the idea that cross linguistic differences could be explained by linguistic parameters within Universal Grammar whose operation might vary from language to language Unfortunately this way of looking at variation turned out to be much less successful than had been hoped for Professor Newmeyer s alternative to parameters combines leading ideas from functionalist and formalist approaches which in the past have been considered incompatible He throws fresh light on language typology and variation and provides new insights into the principles of Universal Grammar The book is written in a clear readable style and will be readily understood by anyone with a couple of years study of linguistics It will interest a wide range of scholars and students of language including typologists historical linguists and theorists of every shade   Corpus Analysis and Variation in Linguistics Yuji Kawaguchi,Makoto Minegishi,Jacques Durand,2009-03-26 For sale in all countries except Japan For customers in Japan please contact Yushodo Co In this new edition of TUFS Studies in Linguistics we aim to showcase the various linguistics research conducted at Tokyo University of Foreign Studies In this first volume we report on the international symposium hosted by the Global Center of Excellence Program Corpus based Linguistics and Language Education CbLLE throughout 2008 Also in this collection we consider the timeless linguistics issue of variation by utilizing the corpus analysis method Whether socio linguistic stylistic or individual variations manifest in a variety of ways throughout time and space and are closely related to issues surrounding linguistic theories Additionally this volume includes other research upon diverse themes such as diachronic variation analysis lexical variations second language acquisition and bilingualism   **The Acquisition of Direct Object Scrambling and Clitic Placement** Jeannette C. Schaeffer,2000-01-01 This book offers a new contribution to the debate concerning the real time acquisition of grammar in First Language Acquisition Theory It combines detailed and quantitative observations of object placement in Dutch and Italian child

language with an analysis that makes use of the Modularity Hypothesis Real time development is explained by the interaction between two different modules of language namely syntax and pragmatics Children need to build up knowledge of how the world works which includes learning that in communicating with someone else one must realize that speaker and hearer knowledge are always independent Since the syntactic feature referentiality can only be marked if this pragmatic distinction is made and assuming that certain types of object placement such as scrambling and clitic placement are motivated by referentiality it follows that the relevant syntactic mechanism is dependent on the prior acquisition of a pragmatic distinction

The Origins of Musicality Henkjan Honing,2019-08-20 Interdisciplinary perspectives on the capacity to perceive appreciate and make music Research shows that all humans have a predisposition for music just as they do for language All of us can perceive and enjoy music even if we can t carry a tune and consider ourselves unmusical This volume offers interdisciplinary perspectives on the capacity to perceive appreciate and make music Scholars from biology musicology neurology genetics computer science anthropology psychology and other fields consider what music is for and why every human culture has it whether musicality is a uniquely human capacity and what biological and cognitive mechanisms underlie it Contributors outline a research program in musicality and discuss issues in studying the evolution of music consider principles constraints and theories of origins review musicality from cross cultural cross species and cross domain perspectives discuss the computational modeling of animal song and creativity and offer a historical context for the study of musicality The volume aims to identify the basic neurocognitive mechanisms that constitute musicality and effective ways to study these in human and nonhuman animals and to develop a method for analyzing musical phenotypes that point to the biological basis of musicality Contributors Jorge L Armony Judith Becker Simon E Fisher W Tecumseh Fitch Bruno Gingras Jessica Grahn Yuko Hattori Marisa Hoeschele Henkjan Honing David Huron Dieuwke Hupkes Yukiko Kikuchi Julia Kursell Marie laine Lagrois Hugo Merchant Bj rn Merker Iain Morley Aniruddh D Patel Isabelle Peretz Martin Rohrmeier Constance Scharff Carel ten Cate Laurel J Trainor Sandra E Trehub Peter Tyack Dominique Vuvan Geraint Wiggins Willem Zuidema

Grammatical theory : From transformational grammar to constraint-based approaches Stefan Müller,2023-01-04 This book introduces formal grammar theories that play a role in current linguistic theorizing Phrase Structure Grammar Transformational Grammar Government Binding Generalized Phrase Structure Grammar Lexical Functional Grammar Categorial Grammar Head Driven Phrase Structure Grammar ConstructionGrammar Tree Adjoining Grammar The key assumptions are explained and it is shown how the respective theory treats arguments and adjuncts the active passive alternation local reorderings verb placement and fronting of constituents over long distances The analyses are explained with German as the object language The second part of the book compares these approaches with respect to their predictions regarding language acquisition and psycholinguistic plausibility The nativism hypothesis which assumes that humans posses genetically determined innate language specific knowledge is critically examined and alternative models of language

acquisition are discussed The second part then addresses controversial issues of current theory building such as the question of flat or binary branching structures being more appropriate the question whether constructions should be treated on the phrasal or the lexical level and the question whether abstract non visible entities should play a role in syntactic analyses It is shown that the analyses suggested in the respective frameworks are often translatable into each other The book closes with a chapter showing how properties common to all languages or to certain classes of languages can be captured

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