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Prosody: Models and Measurements

Editors

A. Cutler D. R. Ladd



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Prosody Models And Measurements

**Andrey Ronzhin, Rodmonga
Potapova, Delic Vlado**



Prosody Models And Measurements:

Prosody: Models and Measurements A. Cutler, D. R. Ladd, 2013-03-07 Prosody Models and Measurements is the fruit of a three day workshop held in Paris in April 1982 The workshop was one of a series which is sponsored by the Maison des Sciences de l'Homme under the auspices of the European Psycholinguistics Association and which aims to bring together workers in a particular field from different European laboratories and to encourage future collaboration across regional national and disciplinary boundaries Thus the topic of the workshop Prosody was fairly liberally interpreted in the invitations and the participants were drawn from a variety of background linguistics phonetics psychology Despite this diversity however there was a surprising degree of congruence in the topics discussed and points of view adopted We have attempted in the introduction to the present volume to as well as to account for the draw out the similarities between approaches differences and to set the individual contributions against the background of current research in the field The book is not merely a transcript of what was said during the sessions All of the papers have been rewritten by the participants in some cases extensively to reflect the comments that were made in discussion and the points of contact and disagreement that became evident during the three days

invariance and Variability in Speech Processes J. S. Perkell, D. H. Klatt, 2014-01-14 First published in 1986 The important implications of speech variability for the future of speech related technology in combination with the multifaceted debate about invariance among speech scientists make this a most appropriate time to evaluate the state our knowledge in this area On October 8 10 1983 researchers from the fields of production perception acoustics pathology psychology linguistics language acquisition synthesis and recognition met at a symposium at M I T on invariance and variability of speech processes This volume is the Proceedings of the symposium Each chapter of the book consists of a focus paper followed by some comments

Swiss German Intonation Patterns Adrian Leemann, 2012-07-04 Switzerland is renowned for having a diverse linguistic and dialectal landscape in a comparatively small and confined space Possibly this is one of the reasons why Swiss German dialects have been investigated thoroughly on various linguistic levels Nevertheless natural speech intonation has until today not been examined systematically The aim of this study is to analyze natural Swiss German fundamental frequency behavior according to linguistic paralinguistic and extralinguistic variables using statistical tests against the backdrop of detecting dialect specific patterns as well as cross dialectal differences The intonation analyses were conducted with the mathematically formulated Command Response model This is the first large scale study that applies this framework on a large corpus of natural dialectal speech This contribution provides a holistic account of the truly multilayered features of natural speech intonation and brings to light detailed underlying patterns of Swiss German dialectal fundamental frequency behavior The book is mainly targeted at linguists speech scientists as well as dialectologists

The Phonology of Tone Keith Snider, Harry van der Hulst, 2012-05-07 No detailed description available for The Phonology of Tone

Multilingual Natural Language Processing Applications

Daniel Bikel,Imed Zitouni,2012-05-11 Multilingual Natural Language Processing Applications is the first comprehensive single source guide to building robust and accurate multilingual NLP systems Edited by two leading experts it integrates cutting edge advances with practical solutions drawn from extensive field experience Part I introduces the core concepts and theoretical foundations of modern multilingual natural language processing presenting today s best practices for understanding word and document structure analyzing syntax modeling language recognizing entailment and detecting redundancy Part II thoroughly addresses the practical considerations associated with building real world applications including information extraction machine translation information retrieval search summarization question answering distillation processing pipelines and more This book contains important new contributions from leading researchers at IBM Google Microsoft Thomson Reuters BBN CMU University of Edinburgh University of Washington University of North Texas and others Coverage includes Core NLP problems and today s best algorithms for attacking them Processing the diverse morphologies present in the world s languages Uncovering syntactical structure parsing semantics using semantic role labeling and scoring grammaticality Recognizing inferences subjectivity and opinion polarity Managing key algorithmic and design tradeoffs in real world applications Extracting information via mention detection coreference resolution and events Building large scale systems for machine translation information retrieval and summarization Answering complex questions through distillation and other advanced techniques Creating dialog systems that leverage advances in speech recognition synthesis and dialog management Constructing common infrastructure for multiple multilingual text processing applications This book will be invaluable for all engineers software developers researchers and graduate students who want to process large quantities of text in multiple languages in any environment government corporate or academic *Papers in*

Laboratory Phonology: Volume 1, Between the Grammar and Physics of Speech John C. Kingston,Mary E.

Beckman,1990-11-30 The unifying theme of this compilation of current speech science research is the relationship between phonological representations of grammatical structure and physical models of the production and perception of actual utterances **Prosodic Typology II** Sun-Ah Jun,2014 This text illustrates an approach to prosodic typology through descriptions of the intonation and the prosodic structure of 13 typologically different languages based on the same

theoretical framework and the transcription system of prosody known as Tones and Break Indices ToBI Explorations in Cognitive Neuropsychology Alan Parkin,2016-03-23 Cognitive neuropsychology has now established a major place in the teaching of undergraduate psychology degrees and is an important topic of postgraduate research The subject is also of increasing interest to clinicians because of its links with devising remediation procedures for people with brain injury Explorations in Cognitive Neuropsychology is the first major text to appear on this topic since the late 1980s and thus introduces the reader to a vast amount of research previously unavailable in textbook format The book is written in a lively and engaging style which nonetheless enables the reader to get a scholarly in depth overview of this important field The

coverage of topics is very broad ranging It begins with an overview of the subject including issues such as research strategy and advances in neuroimaging Following this are chapters on blindsight agnosia facial processing impairments and the rapidly growing area of neglect The next chapter is devoted to studies of the split brain Two chapters then cover the enormous developments in devising functional architectures of the language system from the observation of discrete language impairments Various aspects of memory impairments are then discussed and the book ends with a consideration of frontal lobe functions At various points the book also covers the contribution of connectionist modelling to cognitive neuropsychology

Intonation and Prosodic Structure Caroline Féry, 2017 This book provides a state of the art survey of intonation and prosody from a phonological perspective for advanced students and researchers in phonology

Celebrating Indigenous Voice Alexandra Y. Aikhenvald, Robert L. Bradshaw, Luca Ciucci, Pema Wangdi, 2023-01-30 Every society thrives on stories legends and myths This volume explores the linguistic devices employed in the astoundingly rich narrative traditions in the tropical hot spots of linguistic and cultural diversity and the ways in which cultural changes and new means of communication affect narrative genres and structures It focusses on linguistic and cultural facets of the narratives in the areas of linguistic diversity across the tropics and surrounding areas New Guinea Northern Australia Siberia and also the Tibeto Burman region The introduction brings together the recurrent themes in the grammar and the substance of the narratives The twelve contributions to the volume address grammatical forms and categories deployed in organizing the narrative and interweaving the protagonists and the narrator These include quotations person of the narrator and the protagonist mirativity demonstratives and clause chaining The contributors also address the kinds of narratives told their organization and evolution in time and space under the impact of post colonial experience and new means of communication via social media The volume highlights the importance of documenting narrative tradition across indigenous languages

Data-Driven Techniques in Speech Synthesis R.I. Damper, 2012-12-06 Data Driven Techniques in Speech Synthesis gives a first review of this new field All areas of speech synthesis from text are covered including text analysis letter to sound conversion prosodic marking and extraction of parameters to drive synthesis hardware Fuelled by cheap computer processing and memory the fields of machine learning in particular and artificial intelligence in general are increasingly exploiting approaches in which large databases act as implicit knowledge sources rather than explicit rules manually written by experts Speech synthesis is one application area where the new approach is proving powerfully effective the reliance upon fragile specialist knowledge having hindered its development in the past This book provides the first review of the new topic with contributions from leading international experts Data Driven Techniques in Speech Synthesis is at the leading edge of current research written by well respected experts in the field The text is concise and accessible and guides the reader through the new technology The book will primarily appeal to research engineers and scientists working in the area of speech synthesis However it will also be of interest to speech scientists and phoneticians as well as managers and project

leaders in the telecommunications industry who need an appreciation of the capabilities and potential of modern speech synthesis technology

Design of Speech-based Devices Ian Pitt, Alistair Edwards, 2012-12-06 Developments in technology have made it possible for speech output to be used in place of the more usual visual interface in both domestic and commercial devices Speech can be used in situations where visual attention is occupied such as when driving a car or where a task is complex and traditional visual interfaces are not effective such as programming a video recorder Speech can also be employed in specialist adaptations for visually impaired people However the use of speech has not been universally successful possibly because the speech interaction is poorly designed Speech is fundamentally different from text and a lot of the problems may arise due to simplified text to speech conversion Design of Speech based Devices considers the problems associated with speech interaction and offers practical solutions

Language Processing Simon Garrod, Martin Pickering, 2016-01-28 Language Processing questions what happens when we process language what mental operations occur during processing and how they are organised over time The last decade has seen real advances in the study of language processing that have wide ranging implications for human cognition in general Language Processing gives an account of these developments both as they relate to experimental studies of processing and as they relate to computational modelling of the processes In addition to chapters covering core topics such as lexical processing syntactic parsing and the comprehension of discourse special topics of recent interest are also included

The Oxford Handbook of Information Structure Caroline Féry, Shinichiro Ishihara, 2016 This book provides linguists with a clear critical and comprehensive overview of theoretical and experimental work on information structure Leading researchers survey the main theories of information structure in syntax phonology and semantics as well as perspectives from psycholinguistics and other relevant fields Following the editors introduction the book is divided into four parts The first on theories of and theoretical perspectives on information structure includes chapters on topic prosody and implicature Part 2 covers a range of current issues in the field including focus quantification and sign languages while Part 3 is concerned with experimental approaches to information structure including processes involved in its acquisition and comprehension The final part contains a series of linguistic case studies drawn from a wide variety of the world's language families This volume will be the standard guide to current work in information structure and a major point of departure for future research

Intonational Grammar in Ibero-Romance Meghan E. Armstrong, Nicholas Henriksen, Maria del Mar Vanrell, 2016-03-31 Intonational Grammar in Ibero-Romance Approaches across linguistic subfields is a volume of empirical research papers incorporating recent theoretical methodological and interdisciplinary advances in the field of intonation as they relate to the Ibero-Romance languages The volume brings together leading experts in Catalan Portuguese and Spanish as well as in the intonation of Spanish in contact situations The common thread is that each paper examines a specific topic related to the intonation of at least one Ibero-Romance language framing the analysis in an experimental setting The novel findings of each chapter hinge on critical

connections that are made between the study of intonation and its related fields of linguistic inquiry including syntax pragmatics sociophonetics language acquisition and special populations In this sense the volume expands the traditional scope of Ibero Romance intonation including in it work on signed languages LSC individuals with autism spectrum disorder and individuals with Williams Syndrome This volume establishes the precedent for researchers and advanced students who wish to explore the complexities of Ibero Romance intonation It also serves as a showcase of the most up to date methodologies in intonational research

Information Structure and its Interfaces Lunella Mereu, 2009-02-26 The volume presents recent results in the field of Information Structure based on research on Italian and Italian dialects and on further studies on several typologically different languages The central idea is that Information Structure is not an exclusive matter of syntax but an interface issue which involves the interplay of at least the phonological morpho syntactic and semantic pragmatic levels of analysis In addition the volume is based on the study of actual language use and it adopts a cross linguistic point of view

Discourse Markers in Doctoral Supervision Sessions Samira Bakeer, 2023-09-29 Language is a complex system that transfers ideas feelings experiences beliefs and cultures to others One of the interactional resources that are utilised to make this transmission more coherent and effective is Discourse Markers DMs This monograph analyses these markers in doctoral supervisions but uses a multimodal approach to provide a deeper understanding of these DMs and uncovers potential hidden meanings that would escape a purely verbal analysis Using a dataset consisting of a corpus of video recorded doctoral supervision meetings this book provides an innovative and cutting edge approach to the analysis of DMs and sheds new light on the complexity and dynamicity of naturally occurring discourse where meaning making rests on a close coordination of both verbal and embodied conducts The book makes very useful reading for scholars in the fields of discourse markers conversation analysis corpus linguistics and multimodality It could collaterally be appealing to anyone simply interested in the study of human communication

Speech and Computer Andrey Ronzhin, Rodmonga Potapova, Delic Vlado, 2014-10-10 This book constitutes the refereed proceedings of the 16th International Conference on Speech and Computer SPECOM 2014 held in Novi Sad Serbia The 56 revised full papers presented together with 3 invited talks were carefully reviewed and selected from 100 initial submissions It is a conference with long tradition that attracts researchers in the area of computer speech processing recognition synthesis understanding etc and related domains including signal processing language and text processing multi modal speech processing or human computer interaction for instance

The Routledge Handbook of Theoretical and Experimental Sign Language Research Josep Quer, Roland Pfau, Annika Herrmann, 2021-03-11 The Routledge Handbook of Theoretical and Experimental Sign Language Research bridges the divide between theoretical and experimental approaches to provide an up to date survey of key topics in sign language research With 29 chapters written by leading and emerging scholars from around the world this Handbook covers the following key areas On the theoretical side all crucial aspects of sign language grammar studied within formal frameworks such as

Generative Grammar On the experimental side theoretical accounts are supplemented by experimental evidence gained in psycho and neurolinguistic studies On the descriptive side the main phenomena addressed in the reviewed scholarship are summarized in a way that is accessible to readers without previous knowledge of sign languages Each chapter features an introduction an overview of existing research and a critical assessment of hypotheses and findings The Routledge Handbook of Theoretical and Experimental Sign Language Research is key reading for all advanced students and researchers working at the intersection of sign language research linguistics psycholinguistics and neurolinguistics Chapters 5 18 and 19 of this book are freely available as a downloadable Open Access PDF at <http://www.taylorfrancis.com> under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4.0 license

Handbook of Japanese Phonetics and Phonology Haruo Kubozono, 2015-03-10 This volume is the first comprehensive handbook of Japanese phonetics and phonology describing the basic phonetic and phonological structures of modern Japanese with main focus on standard Tokyo Japanese Its primary goal is to provide a comprehensive overview and descriptive generalizations of major phonetic and phonological phenomena in modern Japanese by reviewing important studies in the fields over the past century It also presents a summary of interesting questions that remain unsolved in the literature The volume consists of eighteen chapters in addition to an introduction to the whole volume In addition to providing descriptive generalizations of empirical phonetic phonological facts this volume also aims to give an overview of major phonological theories including but not restricted to traditional generative phonology lexical phonology prosodic morphology intonational phonology and the more recent Optimality Theory It also touches on theories of speech perception and production This book serves as a comprehensive guide to Japanese phonetics and phonology for all interested in linguistics and speech sciences

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