

Bayesian Networks (2/3)

- A simple, graphical notation for conditional independence assertions and hence for compact specification of full joint distributions
- Syntax
 - A set of nodes, one per variable (discrete or continuous)
 - For discrete variable, they can be either binary or not
 - A directed, acyclic graph (link/arrow = “directly influences”)
 - A conditional distribution for each node given its parents



$$P(X_i | Parents(X_i))$$

- In the simplest case, conditional distribution represented as a Conditional Probability Table (CPT) giving the distribution over $P(X_i)$ for each combination of parent values

Syntax Of Independence

IM Harris



Syntax Of Independence:

Autolexical Syntax Jerrold M. Sadock, 1991 In *Autolexical Syntax* Jerrold M Sadock argues for a radical departure from the derivational model of grammar that has prevailed in linguistics for thirty years He offers an alternative theory in which the various components of grammar in particular syntax semantics and morphology are viewed as fully autonomous descriptive devices for various parallel dimensions of linguistic representation The lexicon in this theory forges the connection between autonomous representations in that a typical lexeme plays a role in all three of the major components of the grammar Sadock's principal innovation is the postulation of a uniform set of interface conditions that require the several orthogonal representations of a single natural language expression to match up in certain ways Through a detailed application of his theory to the twin morphosyntactic problems of cliticization and incorporation Sadock shows that very straightforward accounts are made possible by the nonderivational model He demonstrates the empirical success of these accounts by examining more than two dozen morphosyntactic problems in almost as many languages *Autolexical Syntax* will be of interest to those in the fields of theoretical grammar particularly concerned with the problems of morphology and syntax as well as philosophers of language logicians lexicographers psychologists of language and computer scientists

Historical Syntax Jacek Fisiak, 2010-11-05 *TRENDS IN LINGUISTICS* is a series of books that open new perspectives in our understanding of language The series publishes state of the art work on core areas of linguistics across theoretical frameworks as well as studies that provide new insights by building bridges to neighbouring fields such as neuroscience and cognitive science *TRENDS IN LINGUISTICS* considers itself a forum for cutting edge research based on solid empirical data on language in its various manifestations including sign languages It regards linguistic variation in its synchronic and diachronic dimensions as well as in its social contexts as important sources of insight for a better understanding of the design of linguistic systems and the ecology and evolution of language *TRENDS IN LINGUISTICS* publishes monographs and outstanding dissertations as well as edited volumes which provide the opportunity to address controversial topics from different empirical and theoretical viewpoints High quality standards are ensured through anonymous reviewing **The Syntax of the Verb in Classical Hebrew Prose** Alviero Niccacci, 1990-05-01 Syntax of verbs in Hebrew is fraught with problems According to classic grammars many Hebrew words can be translated by virtually all the finite tenses of modern languages Such grammars include lengthy catalogs of special cases and rules for exceptional uses which illustrate how difficult the problem of verb syntax is In turn translators select the equivalent tense of modern languages based more on their own interpretation than on the rules of Hebrew syntax itself In this landmark study on the syntax of Hebrew verbs Niccacci reexamines the fundamental linguistic categories of prose and provides a systematic classification of the forms and constructions of Hebrew verbs A final chapter deals with tense in poetry **Late Modern English Syntax** Marianne Hundt, 2014-08-14 Using increasingly sophisticated databases this volume explores grammatical usage from the Late Modern

period in a broad context Dependency Syntax Igor Aleksandrovic Mel'cuk, Igor? A. Mel??uk, Igor· A. Mel·?uk, Igor? Aleksandrovi? Mel??uk, 1988-01-01 This work presents the first sustained examination of Dependency Syntax In clear and stimulating analyses Mel'cuk promotes syntactic description in terms of dependency rather than in terms of more familiar phrase structure The notions of dependency relations and dependency structure are introduced and substantiated and the advantages of dependency representation are demonstrated by applying it to a number of popular linguistic problems e g grammatical subject and ergative construction A wide array of linguistic data is used the well known Dyirbal the less known Lezgian and the more recent Alutor Several exotic cases of Russian are discussed to show how dependency can be used to solve difficult technical problems The book is not only formal and rigorous but also strongly theory oriented and data based Special attention is paid to linguistic terminology specifically to its logical consistency The dependency formalism is presented within the framework of a new semantics oriented general linguistic theory Meaning Text theory Syntax and the Lexicon Tim Stowell, Eric Wehrli, 2020-01-13 Syntax and the Lexicon is a dynamic investigation into the role of the lexicon in syntactic theory Twelve chapters authored by leaders in syntactic theory provide a detailed yet easily understandable analysis of differing views on the lexicon in the field Lively debates pepper the volume with interactive dialogue and volume editors Tim Stowell and Eric Wehrli provide an insightful overview and introduction to lexical theory It presents an overview of the role of the lexicon in syntactic theory and debates between major practitioners in the field It discusses the nature of argument and structure and debates the relation of argument nature to constituent structure and binding theory It examines the role of NP movement vs lexical rules in accounting for alternations in grammatical functions **New Approaches to Chinese Word Formation** Jerome L. Packard, 2011-07-22 TRENDS IN LINGUISTICS is a series of books that open new perspectives in our understanding of language The series publishes state of the art work on core areas of linguistics across theoretical frameworks as well as studies that provide new insights by building bridges to neighbouring fields such as neuroscience and cognitive science TRENDS IN LINGUISTICS considers itself a forum for cutting edge research based on solid empirical data on language in its various manifestations including sign languages It regards linguistic variation in its synchronic and diachronic dimensions as well as in its social contexts as important sources of insight for a better understanding of the design of linguistic systems and the ecology and evolution of language TRENDS IN LINGUISTICS publishes monographs and outstanding dissertations as well as edited volumes which provide the opportunity to address controversial topics from different empirical and theoretical viewpoints High quality standards are ensured through anonymous reviewing **The Syntax of (in)dependence** Kenneth J. Safir, 2004 A theory of the syntactic restrictions on dependent identity interpretations in natural language *Theory and Applications of Satisfiability Testing - SAT 2006* Armin Biere, Carla Gomes, 2006-07-26 This book constitutes the refereed proceedings of the 9th International Conference on Theory and Applications of Satisfiability Testing SAT 2006 held in Seattle WA USA in August 2006 as part of the 4th Federated Logic

Conference FLoC 2006 The 26 revised full papers presented together with 11 revised short papers presented together with 2 invited talks were carefully selected from 95 submissions All current research issues in propositional and quantified Boolean formula satisfiability testing are covered the papers are organized in topical sections on proofs and cores heuristics and algorithms applications SMT structure MAX SAT local search and survey propagation QBF as well as counting and concurrency

Diachronic Slavonic Syntax Björn Hansen,Jasmina Grković-Major,Barbara Sonnenhauser,2018-03-05 The book is dedicated to the study of the causes and mechanisms of syntactic change in Slavonic languages including internally motivated syntactic change syntactic change under contact conditions structural convergence pattern replication shift induced transfer etc It also explores metalinguistic factors such as ideologically driven selection and propagation of syntactic structures

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