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# Efficiency and Complexity in Grammars

John A. Hawkins

# Efficiency And Complexity In Grammars

**John A. Hawkins**



## Efficiency And Complexity In Grammars:

**Efficiency and Complexity in Grammars** John A. Hawkins, 2004-11-04 John Hawkins demonstrates a clear link between how languages are used and the conventions of their grammars. He sets out a theory in which performance shapes grammars and accounts for the variation patterns found in the world's languages. **The Oxford Handbook of Universal Grammar** Ian G. Roberts, 2017 This handbook provides a critical guide to the most central proposition in modern linguistics: the notion generally known as Universal Grammar, that a universal set of structural principles underlies the grammatical diversity of the world's languages. Part I considers the implications of Universal Grammar for philosophy of mind and the philosophy of language and examines the history of the theory. Part II focuses on linguistic theory, looking at topics such as explanatory adequacy and how phonology and semantics fit into Universal Grammar. Parts III and IV look respectively at the insights derived from UG-inspired research on language acquisition and at comparative syntax and language typology, while part V considers the evidence for Universal Grammar in phenomena such as creoles, language pathology, and sign language. The book will be a vital reference for linguists, philosophers, and cognitive scientists. Cross-Linguistic Variation and Efficiency John A. Hawkins, 2014 This book argues that major patterns of variation across languages are structured by general principles of efficiency in language use and communication, an approach that has far-reaching theoretical consequences for issues such as ease of processing, language universals, complexity, and competing and cooperating principles. *The Handbook of Language Emergence* Brian MacWhinney, William O'Grady, 2018-05-01 This authoritative handbook explores the latest integrated theory for understanding human language, offering the most inclusive text yet published on the rapidly evolving emergentist paradigm. Brings together an international team of contributors, including the most prominent advocates of linguistic emergentism. Focuses on the ways in which the learning, processing, and structure of language emerge from a competing set of cognitive, communicative, and biological constraints. Examines forces on widely divergent timescales, from instantaneous neurolinguistic processing to historical changes and language evolution. Addresses key theoretical, empirical, and methodological issues, making this handbook the most rigorous examination of emergentist linguistic theory ever. **The Frequency-Grammar Interface** Stefano Rastelli, 2024-09-15 Speakers and learners, based on memory and experience, implicitly know that certain language elements naturally pair together. However, they also understand through abstract and frequency-independent categories why some combinations are possible and others are not. The frequency grammar interface (FGI) bridges these two types of information in human cognition. Due to this interface, the sediment of statistical calculations over the order distribution and associations of items, the regularities, and the computation over the abstract principles that allow these items to join together, the rules are brought together in a speaker's competence, feeding into one another and eventually becoming superposed. In this volume, it is argued that a specific subset of both first and second language grammar, termed combinatorial grammar, is both innate and learned. While not derived from language

usage combinatorial grammar is continuously recalibrated by usage throughout a speaker's life In the domain of combinatorial grammar both generative and usage based theories are correct each shedding light on just one component of the two that are necessary for any language to function rules and regularities      *Competing Motivations in Grammar and Usage* Brian MacWhinney, Andrej Malchukov, Edith Moravcsik, 2014-10-30 This volume examines the conflicting factors that shape the content and form of grammatical rules in language usage Speakers and addressees need to contend with these rules when expressing themselves and when trying to comprehend messages For example there are on going competitions between the speaker's interests and the addressee's needs or between constraints imposed by grammar and those imposed by online processing These competitions influence a wide variety of systems including case marking agreement and word order politeness forms lexical choices and the position of relative clauses Chapters in the book analyse grammar and usage in adult language as well as first and second language acquisition and the motivations that drive historical change Several of the chapters seek explanations for the competitions involved based on earlier accounts including the Competition Model Natural Morphology the functional typological tradition and Optimality Theory The book will be of interest to linguists from a wide variety of backgrounds particularly those interested in psycholinguistics historical linguistics philosophy of language and language acquisition from advanced undergraduate level upwards      **Gradience in Grammar** Gisbert

Fanselow, Caroline Fery, Matthias Schlesewsky, Ralf Vogel, 2006-10-19 This book represents the state of the art in the study of gradience in grammar the degree to which utterances are acceptable or grammatical and the relationship between acceptability and grammaticality Gradience is at the centre of controversial issues in the theory of grammar and the understanding of language The acceptability of words and sentences may be linked to the frequency of their use and measured on a scale Among the questions considered in the book are whether such measures are beyond the scope of a generative grammar or in other words whether the factors influencing acceptability are internal or external to grammar whether observed gradience is a property of the mentally represented grammar or a reflection of variation among speakers and what gradient phenomena reveal about the relationship between acceptability and grammaticality and between competence and performance The book is divided into four parts Part I seeks to clarify the nature of gradience from the perspectives of phonology generative syntax psycholinguistics and sociolinguistics Parts II and III examine issues in phonology and syntax Part IV considers long wh movement from different methodological perspectives The data discussed comes from a wide range of languages and dialects and includes tone and stress patterns word order variation and question formation Gradience in Grammar will interest linguists concerned with the understanding of syntax phonology language acquisition and variation discourse and the operations of language within the mind      **Grammatical theory: From transformational grammar to constraint-based approaches (Fifth revised edition)** Stefan Müller, 2023-01-23 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 Categorical Grammar Head Driven Phrase Structure Grammar Construction Grammar 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 possess 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

*Quantitative Approaches to Grammar and Grammatical Change* Sam Featherston, Yannick Versley, 2016-07-25 The newly emerging field of theoretically informed but simultaneously empirically based syntax is dynamic but little represented in the literature This volume addresses this need While there has previously been something of a gulf between theoretical linguists in the generative tradition and those linguists who work with quantitative data types this gap is narrowing In the light of the empirical revolution in the study of syntax even people whose primary concern is grammatical theory take note of processing effects and attribute certain effects to them Correspondingly workers focusing on the surface evidence can relate more to the concepts of the theoreticians because the two layers of explanation have been brought into contact And these workers too must account for the data gathered by the theoreticians An additional innovation is the generative analysis of historical data this is now seen as psycholinguistic theory relevant data like any other These papers are thus a snapshot of some of the work currently being done in evidence based grammar using both experimental and historical data

*The Grammar of Multilingualism* Artemis Alexiadou, Terje Lohndal, 2016-10-31 This volume investigates the nature of grammatical representations in speakers who master multiple languages Since the early days of modern formal approaches to grammar most work has been based on the language of monolingual humans Less work has been conducted based on data from speakers who possess more than one language Although important insights have been gained from a monolingual focus there is every reason to believe that bi and multilingual data can inform linguistic theory A lot of ongoing work demonstrates that this is indeed the case and the current volume contributes to this growing literature Thus the research topic addresses a number of questions relating to grammatical structures in multilingual speakers as well as the methodological issues that arise in the context of studying such speakers A better understanding of the grammatical sides of multilingualism is crucial

for understanding the human language capacity and in turn for offering better advice to the public concerning issues of language choice for multilingual children and adults education and language deficits in multilingual individuals

**Parameter Hierarchies and Universal Grammar** Ian G. Roberts, 2019 In this book Ian Roberts argues that the essential insight of the principles and parameters approach to variation can be maintained albeit in a somewhat different guise in the context of the minimalist programme The book represents a significant new contribution to the formal study of cross linguistic morphosyntactic variation

*The Multilingual Mind* Michael Sharwood Smith, John Truscott, 2014-02-06 Language lies at the heart of the way we think communicate and view the world Most people on this planet are in some sense multilingual The Multilingual Mind explores within a processing perspective how languages share space and interact in our minds The mental architecture proposed in this volume permits research across many domains in cognitive science to be integrated and explored within one explanatory framework recasting compatible insights and findings in terms of a common set of terms and concepts The MOGUL framework has already proven effective for shedding light on the relationship between processing and learning metalinguistic knowledge consciousness optionality crosslinguistic influence the initial state UG access ultimate attainment input enhancement and even language instruction This groundbreaking work will be essential reading for linguists working in language acquisition multilingualism and language processing as well as for those working in related areas of psychology neurology and cognitive science

**The Cambridge Handbook of Working Memory and Language** John W. Schwieter, Zhisheng (Edward) Wen, 2022-07-21 Bringing together cutting edge research this Handbook is the first comprehensive text to examine the pivotal role of working memory in first and second language acquisition processing impairments and training Authored by a stellar cast of distinguished scholars from around the world the Handbook provides authoritative insights on work from diverse multi disciplinary perspectives and introduces key models of working memory in relation to language Following an introductory chapter by working memory pioneer Alan Baddeley the collection is organized into thematic sections that discuss working memory in relation to Theoretical models and measures Linguistic theories and frameworks First language processing Bilingual acquisition and processing and Language disorders interventions and instruction The Handbook is sure to interest and benefit researchers clinicians speech therapists and advanced undergraduate and postgraduate students in linguistics psychology education speech therapy cognitive science and neuroscience or anyone seeking to learn more about language cognition and the human mind

*Recent Contributions to Quantitative Linguistics* Arjuna Tuzzi, Martina Benešová, Ján Macutek, 2015-10-16 Quantitative Linguistics is a rapidly developing discipline covering more and more areas of linguistic and textological research The book represents an overview of the state of the art in Quantitative Linguistics its scope and reach Some of the topics linguistic laws frequency analyses synergetic models of language networks part of speech systems authorship attribution polyfunctionality and polysemy and opinion target identification

**Constructional Approaches to English Grammar** Graeme Trousdale, Nikolas

Gisborne, 2008-08-27 This collection of articles brings together new research from both established and emerging international experts in the study of English grammar all of whom have engaged with the notion of construction in their work. The research here is concerned with both synchrony and diachrony with the relationship between Construction Grammar and other linguistic theories and with a number of issues in the study of grammar such as raising and control phenomena, transitivity, relative clause structure, the syntax of gerunds, attributive and predicative uses of adjectives, modality and grammaticalization. Some of the articles are written within a constructional framework while others highlight potential problems with constructional approaches to English grammar; some of the articles are based on data collected from corpora, some on introspection. Some of the articles suggest potential developments for diachronic construction grammar while others seek to compare Construction Grammar with other cognitive linguistic theories, most particularly Word Grammar. The research reported in this volume presents a series of ways of looking at the relationship between constructions and patterns in English grammar, either now or in the past. The book addresses scholars and advanced students who are interested in English grammar, constructional approaches to language and the relationship between functional and formal issues in linguistic description and theory.

**Expecting the Unexpected: Exceptions in Grammar** Horst J. Simon, Heike

Wiese, 2011-03-29 Every linguistic theory has to come to grips with a fundamental property of human language: the existence of exceptions, i.e. phenomena that do not follow the standard patterns one observes otherwise. The contributions to this volume discuss and exemplify a variety of approaches to exceptionality within different formal and non-formal frameworks. Topics include criteria for exceptionality, the diachronic rise of exceptions, the relevance of different grammatical subsystems and their interaction in the explanation of exceptions, and the crucial characteristics of grammatical models that can accommodate exceptions. A special feature of the book is that the articles are accompanied by peer commentaries and responses thereupon, thus opening up the papers to further discussion.

**Criterial Features in L2 English** John A.

Hawkins, Luna Filipović, 2012-05-03 This volume introduces the theoretical and empirical bases for defining English language learning levels in terms of criterial features.

*Nodes and Networks in Diachronic Construction Grammar* Lotte

Sommerer, Elena Smirnova, 2020-05-15 This volume brings together ten contributions by leading experts who present their current usage-based research in Diachronic Construction Grammar. All papers contribute to the discussion of how to conceptualize constructional networks best and how to model changes in the construction, as for example node creation or loss, node external reconfiguration of the network or in decrease in productivity and schematicity. The authors discuss the theoretical status of allostructions, homonstructions, constructional families and constructional paradigms. The terminological distinction between constructionalization and constructional change is revisited. It is shown how constructional competition, but also general cognitive abilities like analogical thinking and schematization, relate to the structure and reorganization of the constructional network. Most contributions focus on the nature of vertical and horizontal links. Finally, contributions to the

volume also discuss how existing network models should be enriched or reconceptualized in order to integrate theoretical psychological and neurological aspects missing so far *Contemporary Linguistics: Integrating Languages, Communities, and Technologies*, 2025-06-26 The International Congress of Linguists ICL takes place every five years It is the meeting where the world's leading linguists present their research and discuss the progress of their work and the state of their profession 21st ICL Pozna 2024 is a highlight in this series In twelve plenary lectures eighteen extensive sections and twelve focus streams two special panels and numerous workshops all theories and schools new developments and emerging sub disciplines of linguistics are discussed This book contains the plenary lectures and all introductions to the sections and focus streams that cover special areas of interest and thus offers the State of the Art of Linguistics in 2024 **Argument**

**Structure and Grammatical Relations** Pirkko Suihkonen, Bernard Comrie, Valery Solovyev, 2012-07-18 This book is a collection of articles dealing with various aspects of grammatical relations and argument structure in the languages of Europe and North and Central Asia LENCA Topics covered with respect to individual languages are split intransitivity Basque causativization Agul transitives and causatives Korean and Japanese aspectual domain and quantification Finnish and Udmurt head marking principles Athabaskan languages and pragmatics Eastern Khanty and Xibe Typology of argument structure properties of give LENCA typology of agreement systems asymmetry in argument structure typology of the Amdo Sprachbund spatial realtors Northeastern Turkic core argument patterns languages of Northern California and typology of grammatical relations LENCA are the topics of articles based on cross linguistic data The broad empirical sweep and the fine tuned theoretical analysis highlight the central role of argument structure and grammatical relations with respect to a plethora of linguistic phenomena

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