

Claudia Leacock · Martin Chodorow
Michael Gamon · Joel Tetreault *Editors*

Automated Grammatical Error Detection for Language Learners Second Edition

Automated Grammatical Error Detection For Language Learners

Martin Chodorow

Horacio Saggion



Automated Grammatical Error Detection For Language Learners Martin Chodorow:

Automated Grammatical Error Detection for Language Learners Claudia Leacock, Martin Chodorow, Michael Gamon, Joel Tetreault, 2022-11-10 It has been estimated that over a billion people are using or learning English as a second or foreign language and the numbers are growing not only for English but for other languages as well These language learners provide a burgeoning market for tools that help identify and correct learners writing errors Unfortunately the errors targeted by typical commercial proofreading tools do not include those aspects of a second language that are hardest to learn This volume describes the types of constructions English language learners find most difficult constructions containing prepositions articles and collocations It provides an overview of the automated approaches that have been developed to identify and correct these and other classes of learner errors in a number of languages Error annotation and system evaluation are particularly important topics in grammatical error detection because there are no commonly accepted standards Chapters in the book describe the options available to researchers recommend best practices for reporting results and present annotation and evaluation schemes The final chapters explore recent innovative work that opens new directions for research It is the authors hope that this volume will contribute to the growing interest in grammatical error detection by encouraging researchers to take a closer look at the field and its many challenging problems Table of Contents Introduction History of Automated Grammatical Error Detection Special Problems of Language Learners Language Learner Data Evaluating Error Detection Systems Article and Preposition Errors Collocation Errors Different Approaches for Different Errors Annotating Learner Errors New Directions Conclusion

Automated Grammatical Error Detection for Language Learners Claudia Leacock, Martin Chodorow, Michael Gamon, Joel Tetreault, 2014-02-01 It has been estimated that over a billion people are using or learning English as a second or foreign language and the numbers are growing not only for English but for other languages as well These language learners provide a burgeoning market for tools that help identify and correct learners writing errors Unfortunately the errors targeted by typical commercial proofreading tools do not include those aspects of a second language that are hardest to learn This volume describes the types of constructions English language learners find most difficult constructions containing prepositions articles and collocations It provides an overview of the automated approaches that have been developed to identify and correct these and other classes of learner errors in a number of languages Error annotation and system evaluation are particularly important topics in grammatical error detection because there are no commonly accepted standards Chapters in the book describe the options available to researchers recommend best practices for reporting results and present annotation and evaluation schemes The final chapters explore recent innovative work that opens new directions for research It is the authors hope that this volume will continue to contribute to the growing interest in grammatical error detection by encouraging researchers to take a closer look at the field and its many challenging problems

Automatic Text Simplification Horacio Saggion, 2022-05-31 Thanks to

the availability of texts on the Web in recent years increased knowledge and information have been made available to broader audiences However the way in which a text is written its vocabulary its syntax can be difficult to read and understand for many people especially those with poor literacy cognitive or linguistic impairment or those with limited knowledge of the language of the text Texts containing uncommon words or long and complicated sentences can be difficult to read and understand by people as well as difficult to analyze by machines Automatic text simplification is the process of transforming a text into another text which ideally conveying the same message will be easier to read and understand by a broader audience The process usually involves the replacement of difficult or unknown phrases with simpler equivalents and the transformation of long and syntactically complex sentences into shorter and less complex ones Automatic text simplification a research topic which started 20 years ago now has taken on a central role in natural language processing research not only because of the interesting challenges it possesses but also because of its social implications This book presents past and current research in text simplification exploring key issues including automatic readability assessment lexical simplification and syntactic simplification It also provides a detailed account of machine learning techniques currently used in simplification describes full systems designed for specific languages and target audiences and offers available resources for research and development together with text simplification evaluation techniques

The Handbook of Technology and Second Language Teaching and Learning Carol A. Chapelle, Shannon Sauro, 2017-06-28 The Handbook of Technology and Second Language Teaching and Learning presents a comprehensive exploration of the impact of technology on the field of second language learning The rapidly evolving language technology interface has propelled dramatic changes in and increased opportunities for second language teaching and learning Its influence has been felt no less keenly in the approaches and methods of assessing learners language and researching language teaching and learning Contributions from a team of international scholars make up the Handbook consisting of four parts language teaching and learning through technology the technology pedagogy interface technology for L2 assessment and research and development of technology for language learning It considers how technology assists in all areas of language development the emergence of pedagogy at the intersection of language and technology technology in language assessment and major research issues in research and development of technologies for language learning It covers all aspects of language including grammar vocabulary reading writing listening speaking pragmatics and intercultural learning as well as new pedagogical and assessment approaches and new ways of conceiving and conducting research and development The Handbook of Technology and Second Language Teaching and Learning demonstrates the extensive multifaceted implications of technology for language teachers learners materials developers and researchers

The Oxford Handbook of Computational Linguistics Ruslan Mitkov, 2022-05-23 Ruslan Mitkov's highly successful Oxford Handbook of Computational Linguistics has been substantially revised and expanded in this second edition Alongside updated accounts of the topics covered in the first edition it includes

17 new chapters on subjects such as semantic role labelling text to speech synthesis translation technology opinion mining and sentiment analysis and the application of Natural Language Processing in educational and biomedical contexts among many others The volume is divided into four parts that examine respectively the linguistic fundamentals of computational linguistics the methods and resources used such as statistical modelling machine learning and corpus annotation key language processing tasks including text segmentation anaphora resolution and speech recognition and the major applications of Natural Language Processing from machine translation to author profiling The book will be an essential reference for researchers and students in computational linguistics and Natural Language Processing as well as those working in related industries

Automatic Treatment and Analysis of Learner Corpus Data Ana Díaz-Negrillo, Nicolas Ballier, Paul Thompson, 2013-12-15 This book is a critical appraisal of recent developments in corpus linguistics for the analysis of written and spoken learner data The twelve papers cover an introductory critical appraisal of learner corpus data compilation and development section 1 issues in data compilation annotation and exchangeability section 2 automatic approaches to data identification and analysis section 3 and analysis of learner corpus data in the light of recent models of data analysis and interpretation especially recent automatic approaches for the identification of learner language features section 4 This collection is aimed at students and researchers of corpus linguistics second language acquisition studies and quantitative linguistics It will significantly advance learner corpus research in terms of methodological innovation and will fill in an important gap in the development of multidisciplinary approaches for learner corpus studies

Determination of Information and Tenor in Texts Luuk Lagerwerf, 2003

ACL 2007 Association for Computational Linguistics. Meeting, 2007

Proceedings of the Conferences and Proceedings of the ANLP-NAACL 2000 Student Research Workshop Association for Computational Linguistics North American Chapter, 2000

Grammatical Error Correction Daniel Dahlmeier, 2014-03 A large part of the world's population regularly needs to communicate in English even though English is not their native language The goal of automatic grammatical error correction is to build computer programs that can provide automatic feedback about erroneous word usage and ill formed grammatical constructions to a language learner Grammatical error correction involves various aspects of computational linguistics which makes the task an interesting research topic At the same time grammatical error correction has great potential for practical applications for language learners

Automatic Correction of Grammatical Errors in Non-native English Text John Sie Yuen Lee, Massachusetts Institute of Technology. Department of Electrical Engineering and Computer Science, 2009 Learning a foreign language requires much practice outside of the classroom Computer assisted language learning systems can help fill this need and one desirable capability of such systems is the automatic correction of grammatical errors in texts written by non native speakers This dissertation concerns the correction of non native grammatical errors in English text and the closely related task of generating test items for language learning using a combination of statistical and linguistic methods We show that syntactic analysis enables

extraction of more salient features We address issues concerning robustness in feature extraction from non native texts and also design a framework for simultaneous correction of multiple error types Our proposed methods are applied on some of the most common usage errors including prepositions verb forms and articles The methods are evaluated on sentences with synthetic and real errors and in both restricted and open domains A secondary theme of this dissertation is that of user customization We perform a detailed analysis on a non native corpus illustrating the utility of an error model based on the mother tongue We study the benefits of adjusting the correction models based on the quality of the input text and also present novel methods to generate high quality multiple choice items that are tailored to the interests of the user

Automatic Detection of Grammar Errors in Primary School Children's Texts Sylvana Sofkova Hashemi,2003

Automatic Correction of Grammatical Errors in English Learner Writing ԳԳԳ,ԳԳԳ,2014 **Correction and**

Explanation of Grammatical Errors Lilit Khachatryan,2011-06 Language learning like any human learning is a process that involves making mistakes When a learner makes an error in the target language the instructor has two choices to address it or to ignore it and continue There are reasonable arguments both for and against addressing errors The aim of this research paper is to determine what effect the explanation of learners grammatical errors will have on their written performance as well as to see what attitude the students have towards having their errors treated The study was carried out in the Experimental English Classes at the American University of Armenia Two groups were involved in the study the focus group and the comparison group The data were collected through two pretests four writing assignments two posttests and a questionnaire The results revealed that there was a significant difference between the percentages of errors from pretests to posttests of both groups The results also showed that for the majority of the students the correction and the explanation of their grammatical errors were useful *Automatic error detection in natural language words* R. Nussbaum,1978

Automatic Error Detection in Natural Language Words R. Nussbaum,Hans-Jörg Schek,1978 **Automated**

Grammatical Tagging and Phrasing of Child Language Samples Barbara Selden,2004 **Self-correction of**
Grammatical Errors in Foreign Language Learning Deborah Walker,1996

Automated Grammatical Error Detection For Language Learners Martin Chodorow: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have enthralled audiences this year. Automated Grammatical Error Detection For Language Learners Martin Chodorow : Colleen Hoover "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Automated Grammatical Error Detection For Language Learners Martin Chodorow : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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