

# EMPIRICAL METHODS FOR EXPLOITING PARALLEL TEXTS



# Empirical Methods For Exploiting Parallel Texts

**Didier Musso**



## **Empirical Methods For Exploiting Parallel Texts:**

Empirical Methods for Exploiting Parallel Texts I. Dan Melamed, 2001 This book lays out the theory and the practical techniques for discovering and applying translational equivalence at the lexical level Parallel texts bitexts are a goldmine of linguistic knowledge because the translation of a text into another language can be viewed as a detailed annotation of what that text means Knowledge about translational equivalence which can be gleaned from bitexts is of central importance for applications such as manual and machine translation cross language information retrieval and corpus linguistics The availability of bitexts has increased dramatically since the advent of the Web making their study an exciting new area of research in natural language processing This book lays out the theory and the practical techniques for discovering and applying translational equivalence at the lexical level It is a start to finish guide to designing and evaluating many translingual applications Empirical Methods for Exploiting Parallel Texts [microform] Melamed, Ilya Dan, 1998

*Parallel Text Processing* Jean Véronis, 2013-03-14 | This book evolved from the ARCADE evaluation exercise that started in 1995 The project's goal is to evaluate alignment systems for parallel texts i.e. texts accompanied by their translation Thirteen teams from various places around the world have participated so far and for the first time some ten to fifteen years after the first alignment techniques were designed the community has been able to get a clear picture of the behaviour of alignment systems Several chapters in this book describe the details of competing systems and the last chapter is devoted to the description of the evaluation protocol and results The remaining chapters were especially commissioned from researchers who have been major figures in the field in recent years in an attempt to address a wide range of topics that describe the state of the art in parallel text processing and use As I recalled in the introduction the Rosetta stone won eternal fame as the prototype of parallel texts but such texts are probably almost as old as the invention of writing Nowadays parallel texts are electronic and they are becoming an increasingly important resource for building the natural language processing tools needed in the multilingual information society that is currently emerging at an incredible speed Applications are numerous and they are expanding every day multilingual lexicography and terminology machine and human translation cross language information retrieval language learning etc Computational Linguistics and Intelligent Text Processing Alexander Gelbukh, 2003-01-31 CICLing 2003 www.CICLing.org was the 4th annual Conference on Intelligent Text Processing and Computational Linguistics It was intended to provide a balanced view of the cutting edge developments in both the theoretical foundations of computational linguistics and the practice of natural language text processing with its numerous applications A feature of CICLing conferences is their wide scope that covers nearly all areas of computational linguistics and all aspects of natural language processing applications The conference is a forum for dialogue between the specialists working in these two areas This year we were honored by the presence of our keynote speakers Eric Brill Microsoft Research USA Aravind Joshi U Pennsylvania USA Adam Kilgarriff Brighton U UK and Ted Pedersen U Minnesota

USA who delivered excellent extended lectures and organized vivid discussions Of 92 submissions received after careful reviewing 67 were selected for presentation 43 as full papers and 24 as short papers by 150 authors from 23 countries Spain 23 authors China 20 USA 16 Mexico 13 Japan 12 UK 11 Czech Republic 8 Korea and Sweden 7 each Canada and Ireland 5 each Hungary 4 Brazil 3 Belgium Germany Italy Romania Russia and Tunisia 2 each Cuba Denmark Finland and France 1 each

**The Oxford Handbook of Computational Linguistics** Ruslan Mitkov, 2004 This handbook of computational linguistics written for academics graduate students and researchers provides a state of the art reference to one of the most active and productive fields in linguistics

*Routledge Encyclopedia of Translation Technology* Chan Sin-wai, 2014-11-13 The Routledge Encyclopedia of Translation Technology provides a state of the art survey of the field of computer assisted translation It is the first definitive reference to provide a comprehensive overview of the general regional and topical aspects of this increasingly significant area of study The Encyclopedia is divided into three parts Part One presents general issues in translation technology such as its history and development translator training and various aspects of machine translation including a valuable case study of its teaching at a major university Part Two discusses national and regional developments in translation technology offering contributions covering the crucial territories of China Canada France Hong Kong Japan South Africa Taiwan the Netherlands and Belgium the United Kingdom and the United States Part Three evaluates specific matters in translation technology with entries focused on subjects such as alignment bitext computational lexicography corpus editing online translation subtitling and technology and translation management systems The Routledge Encyclopedia of Translation Technology draws on the expertise of over fifty contributors from around the world and an international panel of consultant editors to provide a selection of articles on the most pertinent topics in the discipline All the articles are self contained extensively cross referenced and include useful and up to date references and information for further reading It will be an invaluable reference work for anyone with a professional or academic interest in the subject

[Bitext Alignment](#) Jörg Tiedemann, 2011 This book provides an overview of various techniques for the alignment of bitexts It describes general concepts and strategies that can be applied to map corresponding parts in parallel documents on various levels of granularity Bitexts are valuable linguistic resources for many different research fields and practical applications The most predominant application is machine translation in particular statistical machine translation However there are various other threads that can be followed which may be supported by the rich linguistic knowledge implicitly stored in parallel resources Bitexts have been explored in lexicography word sense disambiguation terminology extraction computer aided language learning and translation studies to name just a few The book covers the essential tasks that have to be carried out when building parallel corpora starting from the collection of translated documents up to sub sentential alignments In particular it describes various approaches to document alignment sentence alignment word alignment and tree structure alignment It also includes a list of resources and a comprehensive review of the literature on alignment techniques Table of Contents Introduction Basic

Concepts and Terminology Building Parallel Corpora Sentence Alignment Word Alignment Phrase and Tree Alignment  
Concluding Remarks      Semantic Domains in Computational Linguistics Alfio Gliozzo, Carlo Strapparava, 2009-07-31

Semantic fields are lexically coherent the words they contain co occur in texts In this book the authors introduce and define semantic domains a computational model for lexical semantics inspired by the theory of semantic fields Semantic domains allow us to exploit domain features for texts terms and concepts and they can significantly boost the performance of natural language processing systems Semantic domains can be derived from existing lexical resources or can be acquired from corpora in an unsupervised manner They also have the property of interlinguality and they can be used to relate terms in different languages in multilingual application scenarios The authors give a comprehensive explanation of the computational model with detailed chapters on semantic domains domain models and applications of the technique in text categorization word sense disambiguation and cross language text categorization This book is suitable for researchers and graduate students in computational linguistics      **Advances in Information Retrieval** Mohand Boughanem, Catherine Berrut, Josiane Mothe, Chantal Soule-Dupuy, 2009-03-27 This book constitutes the refereed proceedings of the 30th annual European Conference on Information Retrieval Research ECIR 2009 held in Toulouse France in April 2009 The 42 revised full papers and 18 revised short papers presented together with the abstracts of 3 invited lectures and 25 poster papers were carefully reviewed and selected from 188 submissions The papers are organized in topical sections on retrieval model collaborative IR filtering learning multimedia metadata expert search advertising evaluation opinion detection web IR representation clustering categorization as well as distributed IR      **Recent Advances in Example-Based Machine Translation** M.

Carl, Andy Way, 2012-12-06 Recent Advances in Example Based Machine Translation is of relevance to researchers and program developers in the field of Machine Translation and especially Example Based Machine Translation bilingual text processing and cross linguistic information retrieval It is also of interest to translation technologists and localisation professionals Recent Advances in Example Based Machine Translation fills a void because it is the first book to tackle the issue of EBMT in depth It gives a state of the art overview of EBMT techniques and provides a coherent structure in which all aspects of EBMT are embedded Its contributions are written by long standing researchers in the field of MT in general and EBMT in particular This book can be used in graduate level courses in machine translation and statistical NLP      Machine Translation: From Research to Real Users Stephen D. Richardson, 2003-06-30 AMTA 2002 From Research to Real Users Ever since the showdown between Empiricists and Rationalists a decade ago at TMI 92 MT researchers have hotly pursued promising paradigms for MT including data driven approaches e g statistical example based and hybrids that integrate these with more traditional rule based components During the same period commercial MT systems with standard transfer architectures have evolved along a parallel and almost unrelated track increasing their coverage primarily through manual update of their lexicons we assume and achieving much broader acceptance and usage principally through the medium of the Internet

Webpage translators have become commonplace a number of online translation services have appeared including in their offerings both raw and postedited MT and large corporations have been turning increasingly to MT to address the exigencies of global communication Still the output of the transfer based systems employed in this expansion represents but a small drop in the ever growing translation marketplace bucket

**A Chronology of Translation in China and the West** Sin-wai Chan,2009 This book is a study of the major events and publications in the world of translation in China and the West from its beginning in the legendary period to 2004 with special references to works published in Chinese and English It covers a total of 72 countries places and 1 000 works All the events and activities in the field have been grouped into 22 areas or categories for easy referencing This book is a valuable reference tool for all scholars working in the field of translation

**Envisioning Machine Translation in the Information Future** John S. White,2003-07-31 Envisioning Machine Translation in the Information Future When the organizing committee of AMTA 2000 began planning it was in that brief moment in history when we were absorbed in contemplation of the passing of the century and the millennium Nearly everyone was comparing lists of the most important accomplishments and people of the last 10 100 or 1000 years imagining the radical changes likely over just the next few years and at least mildly anxious about the potential Y2K apocalypse The millennial theme for the conference Envisioning MT in the Information Future arose from this period The year 2000 has now come and nothing terrible has happened yet to our electronic infrastructure Our musings about great people and events probably did not ennoble us much and whatever sense of jubilee we held has since dissipated So it may seem a bit obsolete or anachronistic to cast this AMTA conference into visionary themes

**Language Engineering for Lesser-studied Languages** Sergei Nirenburg,2009 Technologies enabling computers to process specific languages facilitate economic and political progress of societies where these languages are spoken Development of methods and systems for language processing is therefore a worthy goal for national governments as well as for business entities and scientific and educational institutions in every country in the world As work on systems and resources for the lower density languages becomes more widespread an important question is how to leverage the results and experience accumulated by the field of computational linguistics for the major languages in the development of resources and systems for lower density languages This issue has been at the core of the NATO Advanced Studies Institute on language technologies for middle and low density languages held in Georgia in October 2007 This publication is a collection of publication oriented versions of the lectures presented there and is a useful source of knowledge about many core facets of modern computational linguistic work By the same token it can serve as a reference source for people interested in learning about strategies that are best suited for developing computational linguistic capabilities for lesser studied languages either from scratch or using components developed for other languages The book should also be quite useful in teaching practical system and resource building topics in computational linguistics

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**Creation, Use, and Deployment of Digital Information** Herre van Oostendorp,Leen

Breure, Andrew Dillon, 2005-05-06 The aim of this book is to present results of scientific research on how digital information should be designed and how artifacts or systems containing digital content should maximize usability and to explain how context can influence the nature and effectiveness of digital communication Using a philosophical cognitive and technical standpoint the book covers the issue of what digital information actually is The text also presents research outcomes from the perspective of research in information science broadly construed a term now used to cover a range of theoretical and practical approaches Creation Use and Deployment of Digital Information is broken down into three parts Part I presents information on how electronic documents can be realized the complexities alternatives functions and restrictions are treated here Part II discusses how human beings process information and how technical solutions can satisfy human restrictions Part III treats the context in which digital information processing and deployment takes place The book has much to offer to academics in many disciplines including science the arts psychology education and the information and computing sciences

**Emerging Applications of Natural Language Processing: Concepts and New Research** Bandyopadhyay, Sivaji, Naskar, Sudip Kumar, Ekbal, Asif, 2012-10-31 This book provides pertinent and vital information that researchers postgraduate doctoral students and practitioners are seeking for learning about the latest discoveries and advances in NLP methodologies and applications of NLP Provided by publisher

**New Perspectives on Computational and Cognitive Strategies for Word Sense Disambiguation** Oi Yee Kwong, 2012-08-11 Cognitive and Computational Strategies for Word Sense Disambiguation examines cognitive strategies by humans and computational strategies by machines for WSD in parallel Focusing on a psychologically valid property of words and senses author Oi Yee Kwong discusses their concreteness or abstractness and draws on psycholinguistic data to examine the extent to which existing lexical resources resemble the mental lexicon as far as the concreteness distinction is concerned The text also investigates the contribution of different knowledge sources to WSD in relation to this very intrinsic nature of words and senses

**SOFSEM 2012: Theory and Practice of Computer Science** Maria Bielikova, Gerhard Friedrich, Georg Gottlob, Stefan Katzenbeisser, György Turán, 2012-01-18 This book constitutes the refereed proceedings of the 38th Conference on Current Trends in Theory and Practice of Computer Science SOFSEM 2012 held in Píndler v Mlýn Czech Republic in January 2012 The 43 revised papers presented in this volume were carefully reviewed and selected from 121 submissions The book also contains 11 invited talks 10 of which are in full paper length The contributions are organized in topical sections named foundations of computer science software and Web engineering cryptography security and verification and artificial intelligence

**SOFSEM 2012: Theory and Practice of Computer Science** Mária Bieliková, Gerhard Friedrich, Georg Gottlob, Stefan Katzenbeisser, György Turán, 2012-01-09 This book constitutes the refereed proceedings of the 38th Conference on Current Trends in Theory and Practice of Computer Science SOFSEM 2012 held in Píndler v Mlýn Czech Republic in January 2012 The 43 revised papers presented in this volume were carefully reviewed and selected from 121 submissions The book also contains 11 invited talks

10 of which are in full paper length The contributions are organized in topical sections named foundations of computer science software and Web engineering cryptography security and verification and artificial intelligence Natural Language Processing with Python Steven Bird,Ewan Klein,Edward Loper,2009-06-12 This book offers a highly accessible introduction to natural language processing the field that supports a variety of language technologies from predictive text and email filtering to automatic summarization and translation With it you ll learn how to write Python programs that work with large collections of unstructured text You ll access richly annotated datasets using a comprehensive range of linguistic data structures and you ll understand the main algorithms for analyzing the content and structure of written communication Packed with examples and exercises Natural Language Processing with Python will help you Extract information from unstructured text either to guess the topic or identify named entities Analyze linguistic structure in text including parsing and semantic analysis Access popular linguistic databases including WordNet and treebanks Integrate techniques drawn from fields as diverse as linguistics and artificial intelligence This book will help you gain practical skills in natural language processing using the Python programming language and the Natural Language Toolkit NLTK open source library If you re interested in developing web applications analyzing multilingual news sources or documenting endangered languages or if you re simply curious to have a programmer s perspective on how human language works you ll find Natural Language Processing with Python both fascinating and immensely useful



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