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Bitext Alignment

Jörg Tiedemann

*SYNTHESIS LECTURES ON
HUMAN LANGUAGE TECHNOLOGIES*

Graeme Hirst, *Series Editor*

Bitext Alignment Bitext Alignment

Jean Véronis



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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

Discriminative Alignment Models For Statistical Machine Translation Nadi Tomeh, 2012 Bitext alignment is the task of aligning a text in a source language and its translation in the target language Aligning amounts to finding the translational correspondences between textual units at different levels of granularity Many practical natural language processing applications rely on bitext alignments to access the rich linguistic knowledge present in a bitext While the most predominant application for bitexts is statistical machine translation they are also used in multilingual and monolingual lexicography word sense disambiguation terminology extraction computer aided language learning and translation studies to name a few Bitext alignment is an arduous task because meaning is not expressed seemingly across languages It varies along linguistic properties and cultural backgrounds of different languages and also depends on the translation strategy that have been used to produce the bitext Current practices in bitext alignment model the alignment as a hidden variable in the translation process In order to reduce the complexity of the task such approaches suppose that a word in the source sentence is aligned to one word at most in the target sentence However this over simplistic assumption results in asymmetric one to many alignments whereas alignments are typically symmetric and many to many To achieve symmetry two one to many alignments in opposite translation directions are built and combined using a heuristic In order to use these word alignments in phrase based translation systems which use phrases instead of words a heuristic is used to extract phrase pairs that are consistent with the word alignment In this dissertation we address both the problems of word alignment and phrase pairs extraction We improve the state of the art in several ways using discriminative learning techniques We present a maximum entropy MaxEnt framework for word alignment In this framework links are predicted independently from one another using a MaxEnt classifier The

interaction between alignment decisions is approximated using stacking techniques which allows us to account for a part of the structural dependencies without increasing the complexity This formulation can be seen as an alignment combination method in which the union of several input alignments is used to guide the output alignment Additionally input alignments are used to compute a rich set of feature functions Our MaxEnt aligner obtains state of the art results in terms of alignment quality as measured by the alignment error rate and translation quality as measured by BLEU on large scale Arabic English NIST 09 systems We also present a translation quality informed procedure for both extraction and evaluation of phrase pairs We reformulate the problem in the supervised framework in which we decide for each phrase pair whether we keep it or not in the translation model This offers a principled way to combine several features to make the procedure more robust to alignment difficulties We use a simple and effective method based on oracle decoding to annotate phrase pairs that are useful for translation Using machine learning techniques based on positive examples only these annotations can be used to learn phrase alignment decisions Using this approach we obtain improvements in BLEU scores for recall oriented translation models which are suitable for small training corpora

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

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

Advances in Multimodal Interfaces - ICMI 2000 Tieniu Tan, Yuanchun Shi, Wen Gao, 2003-06-29 Multimodal Interfaces represents an emerging interdisciplinary research direction and has become one of the frontiers in Computer Science Multimodal interfaces aim at efficient convenient and natural interaction and communication between computers in their broadest sense and human users They will ultimately enable users to interact with computers using their everyday skills These proceedings include the papers accepted for presentation at the Third International Conference on Multimodal Interfaces ICMI 2000 held in Beijing China on 14-16 October 2000 The papers were selected from 172 contributions submitted worldwide Each paper was allocated for review to three members of the Program Committee which consisted of more than 40 leading researchers in the field Final decisions of 38 oral papers and 48 poster papers were made based on the reviewers comments and the desire for a balance of topics The decision to have a single track conference led to a competitive selection process and it is very likely that some good submissions are not included in this volume The papers collected here cover a wide range of topics such as affective and perceptual computing interfaces for wearable and mobile computing gestures and sign languages face and facial expression analysis multilingual interfaces virtual and augmented reality speech and handwriting multimodal integration and application systems They represent some of the latest progress in multimodal interfaces research

Handbook of Natural Language Processing Robert Dale, Hermann Moisl, Harold Somers, 2000-07-25 This study explores the design and application of natural language text based processing systems based on generative linguistics empirical corpus analysis and artificial neural networks It emphasizes the practical tools to accommodate the selected system

Handbook of Natural Language Processing Nitin Indurkha, Fred J. Damerau, 2010-02-22 The Handbook of Natural Language Processing Second Edition presents practical tools and techniques for implementing natural language processing in computer systems Along with removing outdated material this edition updates every chapter and expands the content to include emerging areas such as sentiment analysis New to the Second Edition Greater

Intercultural Collaboration Toru Ishida, Susan R. Fussell, Piek T. J. M. Vossen, 2007-08-13 This book presents 29 revised invited and selected lectures given by top researchers at the First International Workshop on Intercultural Collaboration IWIC 2007 held in Kyoto Japan This state of the art survey increases mutual understanding in our multicultural world by featuring collaboration support social psychological analyses of intercultural interaction and case studies from field workers

Chinese Computational Linguistics and Natural Language Processing Based on Naturally Annotated Big Data Maosong Sun, Ting Liu, Xiaojie Wang, Zhiyuan Liu, Yang Liu, 2018-10-11 This book constitutes the proceedings of the 17th China National Conference on Computational Linguistics CCL 2018 and the 6th International Symposium on Natural Language Processing Based on Naturally Annotated Big Data NLP NABD 2018 held in Changsha

China in October 2018 The 33 full papers presented in this volume were carefully reviewed and selected from 84 submissions They are organized in topical sections named Semantics machine translation knowledge graph and information extraction linguistic resource annotation and evaluation information retrieval and question answering text classification and summarization social computing and sentiment analysis and NLP applications **Applied Text Mining** Usman Qamar, Muhammad Summair Raza, 2024-06-10 This textbook covers the concepts theories and implementations of text mining and natural language processing NLP It covers both the theory and the practical implementation and every concept is explained with simple and easy to understand examples It consists of three parts In Part 1 which consists of three chapters details about basic concepts and applications of text mining are provided including eg sentiment analysis and opinion mining It builds a strong foundation for the reader in order to understand the remaining parts In the five chapters of Part 2 all the core concepts of text analytics like feature engineering text classification text clustering text summarization topic mapping and text visualization are covered Finally in Part 3 there are three chapters covering deep learning based text mining which is the dominating method applied to practically all text mining tasks nowadays Various deep learning approaches to text mining are covered including models for processing and parsing text for lexical analysis and for machine translation All three parts include large parts of Python code that shows the implementation of the described concepts and approaches The textbook was specifically written to enable the teaching of both basic and advanced concepts from one single book The implementation of every text mining task is carefully explained based Python as the programming language and Spacy and NLTK as Natural Language Processing libraries The book is suitable for both undergraduate and graduate students in computer science and engineering

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