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Bitext Alignment

Jörg Tiedemann

*SYNTHESIS LECTURES ON
HUMAN LANGUAGE TECHNOLOGIES*

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Bitext Alignment Synthesis Lectures On Human Language Technologies

WJ Hussar



Bitext Alignment Synthesis Lectures On Human Language Technologies:

Bitext Alignment Jörg Tiedemann, 2022-05-31 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

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Language, Logic, and Computation Aybüke Özgün, Yulia Zinova, 2022-03-30 This book constitutes the refereed proceedings of the 13th International Tbilisi Symposium on Logic Language and Computation TbiLLC 2019 held in Batumi Georgia in September 2019 The volume contains 17 full revised papers presented at the conference from 17 submissions The scientific program consisted of tutorials invited lectures contributed talks and two workshops The symposium offered two tutorials in language and logic and aimed at students as well as researchers working in the other areas Language Sign language linguistics State of the art by Fabian Bross University of Stuttgart Germany Logic Axiomatic Semantics by Graham

E Leigh University of Gothenburg Sweden *The Routledge Handbook of Translation and Technology* Minako O'Hagan, 2019-08-23 The Routledge Handbook of Translation and Technology provides a comprehensive and accessible overview of the dynamically evolving relationship between translation and technology Divided into five parts with an editor's introduction this volume presents the perspectives of users of translation technologies and of researchers concerned with issues arising from the increasing interdependency between translation and technology The chapters in this Handbook tackle the advent of technologization at both a technical and a philosophical level based on industry practice and academic research Containing over 30 authoritative cutting edge chapters this is an essential reference and resource for those studying and researching translation and technology The volume will also be valuable for translators computational linguists and developers of translation tools **Multiword Units in Machine Translation and Translation Technology** Ruslan Mitkov, Johanna Monti, Gloria Corpas Pastor, Violeta Seretan, 2018-07-15 The correct interpretation of Multiword Units MWUs is crucial to many applications in Natural Language Processing but is a challenging and complex task In recent years the computational treatment of MWUs has received considerable attention but there is much more to be done before we can claim that NLP and Machine Translation MT systems process MWUs successfully This volume provides a general overview of the field with particular reference to Machine Translation and Translation Technology and focuses on languages such as English Basque French Romanian German Dutch and Croatian among others The chapters of the volume illustrate a variety of topics that address this challenge such as the use of rule based approaches compound splitting techniques MWU identification methodologies in multilingual applications and MWU alignment issues Language, Cognition, and Computational Models Thierry Poibeau, Aline Villavicencio, 2018-01-25 How do infants learn a language Why and how do languages evolve How do we understand a sentence This book explores these questions using recent computational models that shed new light on issues related to language and cognition The chapters in this collection propose original analyses of specific problems and develop computational models that have been tested and evaluated on real data Featuring contributions from a diverse group of experts this interdisciplinary book bridges the gap between natural language processing and cognitive sciences It is divided into three sections focusing respectively on models of neural and cognitive processing data driven methods and social issues in language evolution This book will be useful to any researcher and advanced student interested in the analysis of the links between the brain and the language faculty **Information Retrieval Technology** Mohamed Vall Mohamed Salem, Khaled Shaalan, Farhad Oroumchian, Azadeh Shakery, Halim Khelalfa, 2011-12-14 This book constitutes the refereed proceedings of the 7th Asia Information Retrieval Societies Conference AIRS 2011 held in Dubai United Arab Emirates in December 2011 The 31 revised full papers and 25 revised poster papers presented were carefully reviewed and selected from 132 submissions All current aspects of information retrieval in theory and practice are addressed the papers are organized in topical sections on information retrieval models

and theories information retrieval applications and multimedia information retrieval user study information retrieval evaluation and interactive information retrieval Web information retrieval scalability and adversarial information retrieval machine learning for information retrieval natural language processing for information retrieval arabic script text processing and retrieval

Textual Information Access Eric Gaussier, Francois Yvon, 2013-02-04 This book presents statistical models that have recently been developed within several research communities to access information contained in text collections The problems considered are linked to applications aiming at facilitating information access information extraction and retrieval text classification and clustering opinion mining comprehension aids automatic summarization machine translation visualization In order to give the reader as complete a description as possible the focus is placed on the probability models used in the applications concerned by highlighting the relationship between models and applications and by illustrating the behavior of each model on real collections Textual Information Access is organized around four themes informational retrieval and ranking models classification and clustering regression logistics kernel methods Markov fields etc multilingualism and machine translation and emerging applications such as information exploration

Human-Computer Interaction - INTERACT 2015 Julio Abascal, Simone Barbosa, Mirko Fetter, Tom Gross, Philippe Palanque, Marco Winckler, 2015-08-31 The four volume set LNCS 9296 9299 constitutes the refereed proceedings of the 15th IFIP TC13 International Conference on Human Computer Interaction INTERACT 2015 held in Bamberg Germany in September 2015 The 41 papers included in the first volume are organized in topical sections on accessibility accessible interfaces for blind people accessible interfaces for older adults affective HCI and emotions and motivational aspects alternative input alternative input devices for people with disabilities interfaces for cognitive support brain computer interaction cognitive factors

Linguistic Fundamentals for Natural Language Processing Emily M. Bender, 2022-05-31 Many NLP tasks have at their core a subtask of extracting the dependencies who did what to whom from natural language sentences This task can be understood as the inverse of the problem solved in different ways by diverse human languages namely how to indicate the relationship between different parts of a sentence Understanding how languages solve the problem can be extremely useful in both feature design and error analysis in the application of machine learning to NLP Likewise understanding cross linguistic variation can be important for the design of MT systems and other multilingual applications The purpose of this book is to present in a succinct and accessible fashion information about the morphological and syntactic structure of human languages that can be useful in creating more linguistically sophisticated more language independent and thus more successful NLP systems Table of Contents Acknowledgments Introduction motivation Morphology Introduction Morphophonology Morphosyntax Syntax Introduction Parts of speech Heads arguments and adjuncts Argument types and grammatical functions Mismatches between syntactic position and semantic roles Resources Bibliography Author s Biography General Index Index of Languages

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