



# Machine Translation Systems

**John Lehrberger**



## **Machine Translation Systems:**

*Machine Translation* John Lehrberger, 1988 The use of the computer in translating natural languages ranges from that of a translator's aid for word processing and dictionary lookup to that of a full fledged translator on its own However the obstacles to translating by means of the computer are primarily linguistic To overcome them it is necessary to resolve the ambiguities that pervade a natural language when words and sentences are viewed in isolation The problem then is to formalize in the computer these aspects of natural language understanding The authors show how from a linguistic point of view one may form some idea of what goes on inside a system's black box given only the input original text and the raw output translated text before post editing Many examples of English French translation are used to illustrate the principles involved

**Machine Translation Systems** Jonathan Slocum, 1988

**Machine Translation Summit** Makoto Nagao, Hozumi Tanaka, 1989

Automatic Improvement of Machine Translation Systems Ariadna Font Llitjós, 2007 Abstract Achieving high translation quality remains the most daunting challenge Machine Translation MT systems currently face Researchers have explored a variety of methods for including translator feedback in the MT loop However most MT systems have failed to incorporate post editing efforts beyond the addition of corrected translations to the parallel training data for Example Based and Statistical systems or to a translation memory database This thesis describes a novel approach that utilizes post editing information to automatically improve the underlying rules and lexical entries of a Transfer Based MT system This process can be divided into two main steps First an online translation correction tool allows for easy error diagnosis and implicit error categorization Then an Automatic Rule Refiner performs error remediation by tracing errors back to the problematic rules and lexical entries and executing repairs that are mostly lexical and morpho syntactic in nature such as word order missing constituents or incorrect agreement in transfer rules This approach directly improves the intelligibility of corrected MT output and more significantly it generalizes over unseen data providing improved MT output for similar sentences that have not been corrected Experimental results on an English Spanish MT system show that automatic rule refinements triggered by bilingual speaker corrections successfully translate unseen data that was incorrectly translated by the original unrefined grammar Improvements on translation quality over a baseline as measured by standard automatic evaluation metrics are statistically significant on a paired two tailed t test  $p < 0.0051$  One practical application of this research is extending and refining relatively small translation grammars for resource poor languages such as Mapudungun and Quechua into a major language such as English or Spanish Initial experimental results on a Spanish Mapudungun MT system show that rule refinement operations generalize well to a different language pair and are able to correct errors in the grammar and the lexicon

Machine Translation Systems Jonathan Slocum, 1988

**Lecture Notes in Real-Time Intelligent Systems** Jolanta Mizera-Pietraszko, Pit Pichappan, 2017-08-07 Intelligent computing refers greatly to artificial intelligence with the aim at making computer to act as a human This newly developed area of real time intelligent

computing integrates the aspect of dynamic environments with the human intelligence This book presents a comprehensive practical and easy to read account which describes current state of the art in designing and implementing real time intelligent computing to robotics alert systems IoT remote access control multi agent systems networking mobile smart systems crowd sourcing broadband systems cloud computing streaming data and many other applications areas The solutions discussed in this book will encourage the researchers and IT professional to put the methods into their practice

**Translation and Technology** Chiew Kin Quah,2006-04-12 Chiew Kin Quah draws on years of academic and professional experience to provide an account of translation technology its applications and capabilities Major developments from North America Europe and Asia are described including developments in uses and users of the technology **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 **Evaluation of Machine Translation Systems**

M. Saiz,J. McNaught,Language and Linguistics,1994 Information Systems and Computing Technology Lei Zhang,Yonggen Gu,2013-08-21 Information systems are complex including data collecting storing processing and delivering The main components of information systems are computer hardware and software telecommunications databases and data warehouses human resources and procedures With the development of information systems the innovation technologies and their applications continuously appear such as the Internet of Things IOT cloud computing big data and smart cities Information Systems and Computing Technology contains 23 technical papers from the International Conference on Information Systems and Computing Technology ISCT 2013 Wuxi China 15 16 September 2013 The book reviews recent advances in information systems and computing technology **Computers in Translation** John Newton,2002-09-11

Researchers have been attempting to develop systems that would emulate the human translation process for some forty years. What is it about human language that makes this such a daunting challenge? While other software packages have achieved rapid and lasting success, machine translation has failed to penetrate the worldwide market to any appreciable extent. Does this merely reflect a reluctance to adopt it, or does it signal a more fundamental and intractable problem? Computers in Translation is a comprehensive guide to the practical issues surrounding machine translation and computer based translation tools. Translators, system designers, system operators, and researchers present the facts about machine translation, its history, its successes, its limitations, and its potential. Three chapters deal with actual machine translation applications, discussing installations including the METEO system used in Canada to translate weather forecasts and weather reports, and the system used in the Foreign Technology Division of the US Air Force.

**A Linguist-friendly Machine Translation System for Low-resource Languages** Ronald M. Lockwood, 2015. Low resource languages have largely been left out of the machine translation revolution. Speakers would benefit from machine translation for many different tasks if it were available. Because of insufficient text data, the results of using statistical machine translation are subpar. The best choice for these languages is probably a transfer based approach where rules define how to translate from one language to another. Unfortunately, the transfer based systems available today are not easy to use for anyone outside the computational linguistics field. This thesis presents a transfer based system that is easy to use for ordinary linguists. It is linguist friendly because a central component is the intuitive application Fieldworks Language Explorer. This application serves as the repository for lexicons, the place where entries are linked, and the tool for the analysis piece of the analysis transfer synthesis style system. Apertium, the well established open source machine translation platform, is used for the transfer piece of the system, and STAMP for the synthesis piece. All of these programs are well documented. The linguist's role is to link lexicon entries and write transfer rules to do either word or syntactic level translation. Although this machine translation system is a proof of concept system, I show that it translates texts successfully in a test case using Persian and Gilaki. Such a system can be used by ordinary linguists all over the world for almost any language pair where machine translation is needed.

**Using Comparable Corpora for Under-Resourced Areas of Machine Translation** Inguna Skadiņa, Robert Gaizauskas, Bogdan Babych, Nikola Ljubešić, Dan Tufiş, Andrejs Vasiļjevs, 2019-02-06. This book provides an overview of how comparable corpora can be used to overcome the lack of parallel resources when building machine translation systems for under resourced languages and domains. It presents a wealth of methods and open tools for building comparable corpora from the Web, evaluating comparability, and extracting parallel data that can be used for the machine translation task. It is divided into several sections, each covering a specific task such as building processing and using comparable corpora, focusing particularly on under resourced language pairs and domains. The book is intended for anyone interested in data driven machine translation for under resourced languages and domains, especially for developers of machine translation systems, computational linguists.

and language workers It offers a valuable resource for specialists and students in natural language processing machine translation corpus linguistics and computer assisted translation and promotes the broader use of comparable corpora in natural language processing and computational linguistics

**Linguistic And Computational Techniques In Machine Translation** Peter Whitelock,1995-05-25 The design and implementation of quality machine translation MT systems remains one of the principal aims of computational linguistics This new edition provides a foundation for understanding design strategies by critically appraising and describing six of the major second generation MT systems The text begins with an introduction to the basic linguistic and computational problems faced by MT systems designers The six major software projects are then described and dissected in this context Systran Taum Meteo Taum Aviation Geta Ariane 78 Wilks VEXT system and metal The second edition of this text provides an up to date survey of the lessons learnt in major MT systems development It should be useful for advanced undergraduates postgraduates and professionals in machine translation It is also intended for postgraduate and research level in machine translation and computational linguistics

**Speech-to-Speech Translation** Hiroaki Kitano,2012-12-06 Speech to Speech Translation a Massively Parallel Memory Based Approach describes one of the world s first successful speech to speech machine translation systems This system accepts speaker independent continuous speech and produces translations as audio output Subsequent versions of this machine translation system have been implemented on several massively parallel computers and these systems have attained translation performance in the milliseconds range The success of this project triggered several massively parallel projects as well as other massively parallel artificial intelligence projects throughout the world Dr Hiroaki Kitano received the distinguished Computers and Thought Award from the International Joint Conferences on Artificial Intelligence in 1993 for his work in this area and that work is reported in this book

*Machine Translation Association for Machine Translation in the Americas. Conference,2002*

UNITRAN Bonnie J. Dorr,MASSACHUSETTS INST OF TECH CAMBRIDGE ARTIFICIAL INTELLIGENCE LAB.,Massachusetts Institute of Technology. Artificial Intelligence Laboratory,1987 Machine translation has been a particularly difficult problem in the area of Natural Language Processing for over two decades Early approaches to translation failed partly because interaction effects of complex phenomena made translation appear to be unmanageable Later approaches to the problem have been more successful but are based on many language specific rules of a context free nature To try to capture all of the phenomena allowed in natural languages context free rule based systems require an overwhelming number of rules thus such translation systems either have limited linguistic coverage or they have poor performance due to formidable grammar size This report presents an implementation of an alternative approach to natural language translation The UNITRAN Universal Translator system relies on principle based descriptions of grammar rather than rule oriented descriptions The approach taken is interlingual i e the model is based on universal principles that hold across all languages the distinctions among languages are then handled by settings of parameters associated with the

universal principles The grammar is viewed as a modular system of principles rather than a large set of ad hoc language specific rules Interaction effects of linguistic principles are handled by the system so that the programmer does not need to specifically spell out the details of rule applications Only a small set of principles covers all languages thus the unmanageable grammar size of alternative approaches is no longer a problem *Towards Responsible Machine Translation* Helena Moniz, Carla Parra Escartín, 2023-03-01 This book is a contribution to the research community towards thinking and reflecting on what Responsible Machine Translation really means It was conceived as an open dialogue across disciplines from philosophy to law with the ultimate goal of providing a wide spectrum of topics to reflect on It covers aspects related to the development of Machine translation systems as well as its use in different scenarios and the societal impact that it may have This text appeals to students and researchers in linguistics translation natural language processing philosophy and law as well as professionals working in these fields *Report of a Symposium on Japanese to English Machine Translation*, 1990

**Computers and Translation** Harold Somers, 2003-05-28 This volume is about computers and translation It is not however a Computer Science book nor does it have much to say about Translation Theory Rather it is a book for translators and other professional linguists technical writers bilingual secretaries language teachers even which aims at clarifying explaining and exemplifying the impact that computers have had and are having on their profession It is about Machine Translation MT but it is also about Computer Aided or Assisted Translation CAT computer based resources for translators the past present and future of translation and the computer The editor and main contributor Harold Somers is Professor of Language Engineering at UMIST Manchester With over 25 years experience in the field both as a researcher and educator Somers is editor of one of the field s premier journals and has written extensively on the subject including the field s most widely quoted textbook on MT now out of print and somewhat out of date The current volume aims to provide an accessible yet not overwhelmingly technical book aimed primarily at translators and other users of CAT software

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