

Speech-to-speech translation: A massively parallel memory-based approach

Hiroaki Kitano

(Carnegie Mellon University and Sony Computer Science Laboratory, Tokyo)

Boston: Kluwer Academic Publishers
(The Kluwer international series in
electrical engineering and computer
science; natural language processing,
and machine translation, edited by
Jaime Carbonell, 1994, xvii + 193 pp.
Hardbound, ISBN 0-7923-9425-9, \$85.00,
\$32.75, Dfl 150.00)

Reviewed by

Nigel Ward

University of Tokyo

This book, based on the author's Kyoto University dissertation, describes a system able to translate spoken Japanese to spoken English in real time. For this work, as the back cover notes, Kitano was awarded IJCAI's Computers and Thought Award in 1993, and it is not hard to guess what impressed the award committee. This work not only incorporates many of the key ideas of artificial intelligence—including parallel search algorithms, memory-based reasoning, plan recognition, and meaning-based parsing—it brims with excitement, with statements like “the basic approach taken in traditional [machine translation] systems faces a serious dead-end, and needs a dramatically different paradigm” (p. 35) and “the ideas grown out of this work lead me to propose massively parallel artificial intelligence, which is now being recognized as a distinct research field” (p. xv).

This review will first discuss the basic idea of the system, then the book itself, and finally the research strategy.

The most significant contribution of the work, according to Kitano, is that it “demonstrated that real-time spoken language translation at the order of milliseconds is attainable” (p. 176). This was achieved by using memory-based reasoning. It is easy to see how this works in the simple case: a system can store all possible input/output sentence pairs in memory, one per processor, enabling it, when given an input to translate, to quickly recognize which sentence matches, and output the appropriate translation. Moreover, this allows efficient speech recognition: after some of the input has been seen, it is easy to predict what might come next, which provides a constraint on the phonemes the speech recognizer has to consider.

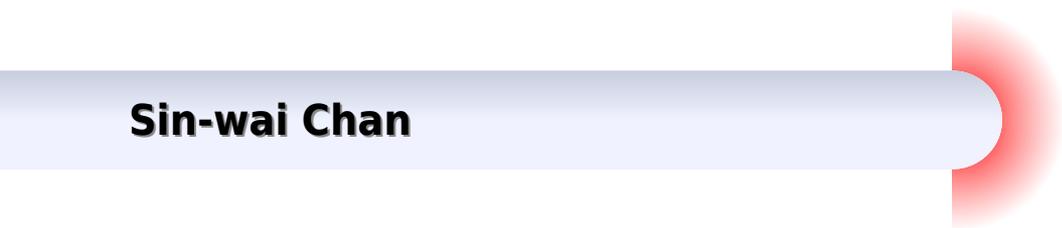
But, of course, a system that can only translate sentences that are already stored in its memory is not very useful. How can a memory based model cope with novel sentences? The book provides three possible answers to this crucial question.

Answer 1 is the old argument that, since there are no infinitely long sentences, the number of sentences in any language is finite, and so a sufficiently big memory will suffice. This argument is backed up by reference to an unnamed “empirical study” which “shows that only 0.53% of possible sentences are observed in large corpora” (p. 40); no explanation is given of what this could mean.

Answer 2 is a “memory network” that augments the store of sentences with their

Speech To Speech Translation A Massively Parallel Memory Based Approach

Sin-wai Chan



Speech To Speech Translation A Massively Parallel Memory Based Approach:

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

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

A Dictionary of Translation Technology Sin-wai Chan,2004 This dictionary is intended for anyone who is interested in translation and translation technology Especially translation as an academic discipline a language activity a specialized profession or a business undertaking The book covers theory and practice of translation and interpretation in a number of areas Addressing and explaining important concepts in computer translation computer aided translation and translation tools Most popular and commercially available translation software are included along with their website addresses for handy reference This dictionary has 1 377 entries The entries are alphabetized and defined in a simple and concise manner

Speech-to-Speech Translation Hiroaki Kitano,1993-12-31 *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

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 Philosophy of Systems Biology Sara Green,2016-12-15 The emergence of systems biology raises many fascinating questions What does it mean to take a systems approach to problems in biology To what extent is the use of mathematical and computational modelling changing the life sciences How does the availability of big data influence research practices What are the major challenges for biomedical research in the years to come This book addresses such questions of relevance not only to philosophers and biologists but also to readers interested in the broader implications of systems biology for science and society The book features reflections and original work by experts from across the disciplines including systems biologists philosophers and interdisciplinary scholars investigating the social and educational aspects of systems biology In response to the same set of questions the experts develop and defend their personal perspectives on the distinctive character of systems biology and the challenges that lie ahead Readers are invited to engage with different views on the questions addressed and may explore numerous themes relating to the philosophy of systems biology This edited work will appeal to scholars and all levels from undergraduates to researchers and to those interested in a variety of scholarly approaches such as systems biology mathematical and computational modelling cell and molecular biology genomics systems theory and of course philosophy of biology Artificial Intelligence Methods And Applications Nikolas G Bourbakis,1992-12-31 This volume is the first in a series which deals with the challenge of AI issues gives updates of AI methods and applications and promotes high quality new ideas techniques and methodologies in AI This volume contains articles by 38 specialists in various AI subfields covering theoretical and application issues Proceedings of the ... International Joint Conference on Artificial Intelligence ,1993 **Artificial Intelligence in the Pacific Rim** Hozumi Tanaka,1991 In the last decade AI firmly settled into our industrial society with the expert systems as the representative product However almost every one of the systems could cover only a single task domain In the highly mechanized world of the 21st century systems will become smart and user friendly enough to cover a wide range of task domains Systems with much user friendliness must be multilingual because users in different domains usually have different languages Language is formed in its own culture Therefore promotion for cross cultural scientific interchange will be indispensable for the progress of AI *Computational Linguistics* ,1995 Massively Parallel Artificial Intelligence Hiroaki Kitano,James A. Hendler,1994 The increased sophistication and availability of massively parallel supercomputers has had two major impacts on research in artificial intelligence both of which are addressed in this collection of exciting new AI theories and experiments Massively parallel computers have been used to push forward research in traditional AI topics such as vision search and speech More important these machines allow

AI to expand in exciting new ways by taking advantage of research in neuroscience and developing new models and paradigms among them associate memory neural networks genetic algorithms artificial life society of mind models and subsumption architectures A number of chapters show that massively parallel computing enables AI researchers to handle significantly larger amounts of data in real time which changes the way that AI systems can be built which in turn makes memory based reasoning and neural network based vision systems become practical Other chapters present the contrasting view that massively parallel computing provides a platform to model and build intelligent systems by simulating the massively parallel processes that occur in nature

AAAI-91 American Association for Artificial Intelligence,1991 *AAAI* proceedings describe innovative concepts techniques perspectives and observations that present promising research directions in artificial intelligence July 15 19 1991 Anaheim California Topics include Communication and Cooperation AI and Education User Interfaces Natural Language Distributed AI Reasoning about Physical Systems Perception Planning and Robotics Machine Learning

IJCAI-91 John Mylopoulos,Ray Reiter,1991 **Interpreting** ,1996 **IJCAI-93** International Joint Conferences on Artificial Intelligence,1993 *Informatica* ,1994 **The Cumulative Book Index** ,1995 A world list of books in the English language

Language Engineering for Lesser-studied Languages Kemal Oflazer,2003 **Illustrated Official Journal (patents)** Great Britain. Patent Office,1994 **Associative Processing and Processors** Anargyros Krikelis,1997 Krikelis and Weems look at recent associative processing and processor research and detail the unique features that offer cost effective system solutions *Associative Processing and Processors* explores the distinct advantages that associative processing offers when compared with other processing paradigms

Speech To Speech Translation A Massively Parallel Memory Based Approach Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has been evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Speech To Speech Translation A Massively Parallel Memory Based Approach**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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