

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

Hiroaki Kitano

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

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(The Kluwer international series in  
electrical engineering and computer  
science; natural language processing  
and machine translation, edited by  
Jaime Carbonell, 1994, xvii + 193 pp.  
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*Reviewed by*  
*Ngel 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. xvi).

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

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## **Speech To Speech Translation A Massively Parallel Memory Based Approach:**

Speech To Speech Translation A Massively Parallel Memory Based Approach: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Speech To Speech Translation A Massively Parallel Memory Based Approach : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is an exceptional and thrilling novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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