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 acience; natural language processing and machine translation, edited by Jaime Carbonelli, 1994, xvii — 193 pp. Hardbound, ISBN 0-7923-9425-9, 585.00, £63.75, DB 180.00

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This book, based on the author's Kyoto University dissertation, describes a systemable to translate spoken Japanese to spoken English in real time. For this work, as the back cover notes, Kitano was awarded IJCAF'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 attelligence—including parallel search algorithms, memory-based reasoning, plant 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 dranatically 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. 89).

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 quackly 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 owne next, which provides a constraint or, 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 I is the old argument that, since there are no infinitely long sentences, the number of scattences in any language is timite, 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.

Anasyes 2 is a "memory network" that augments the store of sentences with: their

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web yes dolphins and whales are mammals like all mammals they breath air are warm blooded give birth to live young lactate and have hair the ancestors of whales and dolphins lived on land millions of years ago and it is thought they were small dog like mammals around 60 million years ago these ancestors began evolving and adapting to