How computers translate human language - Ioannis Papachimonas

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Video Comprehension Questions: Language Translation and Universal Translators

1. What is the purpose of a universal translator in science fiction movies and TV shows?

a. To compile dictionaries of alien languages

b. To create a portable device for instant language translation

c. To teach creatures how to speak English

d. To enhance communication between different species

2. How do real-life translation programs claim to translate languages?

a. By analyzing the syntax and grammar of the source language

b. By searching words in a dictionary

c. By studying the semantics of different phrases

d. By using statistical analysis of translated texts

3. What are the challenges faced by rule-based translation programs?

a. Handling language syntax variations

b. Recognizing different morphologies

c. Understanding the semantics of phrases

d. All of the above

4. Which linguistic element(s) does a rule-based translation program need to recognize in a sentence?

a. Subject and predicate

b. Morphology and syntax

c. Syntax and semantics

d. Subject, predicate, syntax, and semantics

5. What is one of the difficulties with translating languages that allow word order variation?

a. It can lead to incorrect translations

b. It requires additional computational power

c. It slows down the translation process

d. It makes programming the translator more complex

6. How does a statistical translation program identify patterns for translation?

a. By comparing source and translated texts

b. By analyzing syntactic structures

c. By searching for common expressions

d. By using a large initial database of translated texts

7. What is one limitation of statistical translation programs?

a. They heavily rely on human-translated texts

b. They struggle with exceptions and irregularities

c. They require constant internet connectivity

d. They have a limited language coverage

8. According to researchers, why do computers struggle with language understanding?

a. Computers lack biological brain structures

b. Computers are not capable of semantic comprehension

c. Computers have difficulty with word variations

d. Computers cannot process linguistic exceptions

9. In "The Hitchhiker's Guide to the Galaxy," what is the fictional translator called?

a. Universal Translator

b. Babelfish

c. Linguistic Communicator

d. Alien Interpreter

10. What is the current recommendation for language learning?

a. Using existing translation software

b. Developing new translation programs

c. Learning languages the traditional way

d. Relying on telepathic communication