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Computer translates brainwaves into sentences – 3rd April, 2020

Level 4

Scientists may be able to interpret what someone is saying by analysing their brainwaves. This could help millions suffering from communication problems and neurological disorders. Algorithms in the scientists' software can translate brainwaves into text on a screen in real time. The scientists are from the University of California. They say their algorithms are 97 per cent accurate at translating. They are working hard to improve this.

The scientists are in the early stages of their testing. Their software matched frequently-repeated features of speech to shapes of the mouth. These features included vowels, consonants and commands. The scientists used just 40 short and simple spoken sentences. They said: "Although we should like the decoder to learn and exploit the regularities of the language, it remains to show how many data would be required to expand...to a more general form of English."

Level 5

Scientists may be able to interpret what someone is saying simply by analysing their brainwaves. This advance in neuroscience would help millions suffering from communication problems and neurological disorders. The artificial intelligence software can translate brainwaves into text. Algorithms analyse the brain activity and translates it in real time into sentences on a screen. The scientists are from the University of California. They say their algorithms have a 97 per cent translation accuracy rate. They are working hard to improve on this.

The scientists are at the early stages of machine-translating everything someone says. Their software matched frequently-repeated features of speech to parts and shapes of the mouth. These included elements of speech such as vowels, consonants and commands. The scientists used just 40 short and simple spoken sentences. The scientists said: "Although we should like the decoder to learn and exploit the regularities of the language, it remains to show how many data would be required to expand from our tiny languages to a more general form of English."

Level 6

Scientists may soon be able to interpret what someone is saying simply by analysing their brainwaves as they speak. This revolutionary advance in neuroscience would help millions of people who suffer from communication problems and neurological disorders. The scientists developed a form of artificial intelligence that can decode brainwaves and translate them into text. Algorithms take the brain activity created as a person speaks and translates it in real time into sentences on a screen. The scientists are from the University of California, San Francisco. They say their algorithms have a 97 per cent translation accuracy rate but are working hard to improve on this.

The scientists say they are at the early stages of being able to machine-translate everything someone says. The software used in their experiments matched features of speech that were repeated frequently to parts and shapes of the mouth. These included elements of English speech such as vowels, consonants and commands. The experiments were limited to around 40 short and simply-constructed spoken sentences. The scientists said: "Although we should like the decoder to learn and exploit the regularities of the language, it remains to show how many data would be required to expand from our tiny languages to a more general form of English."