

The modern understanding of computer science was firstly announced by ? where he developed the abstract concept of what is now called a *Turing machine*. These machines are the mathematical foundation of programmable computers, and Turing showed that there is a *Universal Turing Machine* that can be used to simulate any other Turing Machine. This means that if an algorithm can be executed in any piece of hardware, then there is a Universal Turing Machine that can accomplish the same task. This is known as the *Church-Turing thesis*