Computer Science, Sisyphus Work and Errors propagation

Annotation.
This article find a very interesting result that are somehow missed by scientists. It simply shows that Computer Science is a pseudoscience. We call a science pseudoscience if it it is inconsistent. In other words there exists a true statement that it can not prove or disprove. We prove this by utilizing Gödel incompleteness theorem and the fact that Computer Science main study topic is study of computers that are built processor and processors are based on arithmetics. We show also that there is an exponential errors propagation initialized by errors in communication process between computers and between computers and humans.

1. Introduction

Let us imagine the world when no Computers exist in mass production. Does it make a difference with the nowadays situation?

This article shows that the existence of computers (we can call computer Dr. Watson according to the known computer project called Watson, see [1]) is redundant.

2. Main body

Definition.
Science is called pseudoscience if there is a true statement that can not be proved or disproved using the methods of this science. In other words it is inconsistent.

Theorem on Computer Science.
Computer Science is a pseudoscience.
Proof.
Computer Science main study topic is study of computers that are built upon processor and as it is known processors work is based on arithmetics.
According to Gödel theorem (see [2]), in any such logical system there is a true statement that can not be proven or disproven using the methods of this system.
It applies to Computer Science and it means that Computer Science is inconsistent, ie it is a pseudoscience.
QED

It is easily seen that one of such statements is 1/3 = 0.333... because there will be never any computer that can prove or disprove this statement.

Definition.
Sisyphus work is "to move a stone up to the rock" everyday (see [3]).

Theorem on Sisyphus work.
Research in Computer Science is a Sisyphus work.
Proof.
Because it is a pseudoscience, it means that doing research in it is a Sisyphus work since there will be always a true statement that can not be proven or disproven. And this should be "fixed" everyday by creating some new logical explanation, rules and etc.
QED

So, Computer Scientists are modern alchemists that make a gold out of water.

In other words, we showed that Dr. Watson is redundant because there is Mr. Sherlock Holmes who actually knows everything and already programmed everything (Mr. Kurt Gödel is one of such Sherlocks).

Dr. Watson is just blind and always in some kind of prostration. But Dr. Watson is a companion of Mr. Sherlock Holmes because without Him there would never exist Mr. Sherlock Holmes - it is Dr. Watson who wrote the story about Sherlock.

Let us consider the impact of Computer Science and its "alchemists" on the society.

Nowadays the society consists of people and devices (robots, mechanisms, computers). More and more the process of communication happens by sending messages to each other. The messages are seen as strings of bits, for example, 11010.

In order to be sure that the message is sent and received without any errors, the original message is attached with some "parity check" bits (see [4] for discussion on the topic) that makes such messages longer. For example, 11010 becomes 110101 telling that there is odd number of 1 in the message.

It is obvious that parity check bits may be transmitted wrongly as well no matter how many bits are added.

One can see that over time such communication process starts to send more and more erroneous messages because at some point the transmitter starts to retransmit only errors.

In order to fix the errors, people start to build more and more sophisticated software, coding algorithms, machinery and so on. By this, inevitably multiplying the errors or the amount of

information exponentially since those mechanisms or software are built on the same communication principles – send message with parity check. The move towards building such "sophisticated" software (malware) becomes faster and faster, resembling the "strange attractor" characteristics perfectly seen, for example, in Internet that became total chaos.

In recent years there appeared new branch in Computer Science, so to say meta Computer Science, the knowledge about the knowledge (data about the data), which main tasks are to monitor, analyze and mine the business data. It is called Business Intelligence.

It can be argued now whether Business Intelligence exists because of the above theorems since over time the number of errors grows in any computer system (due to Gödel theorem) especially in the environments with multiple software installed requiring complex integration software that brings even more bugs. It is easy to show that the growth is exponential. It also proves the necessity in Big Data projects and in-Memory technologies that is the modern trend showing the exponential growth of data.

The existence of endless software doing the same things (like Joomla, Drupal and etc) is also due to the same reason.

Literature.
1. IBM Watson   (computer project)
2. Francesco Berto. There's Something about Gödel: The Complete Guide   to the Incompleteness Theorem John Wiley and Sons. 2010
3. Albert   Camus, The Myth on Sisyphus. Essay on Absurd
4. Richard P. Feynman. Lectures on Computation