Conventional Computing vs. Intelligent Computing

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***Abstract:***

***Conventional computing and intelligent computing are two of the most discussed, or used technologies of today’s world. Intelligent computing is all about, “Can a machine think and behave like humans do?” while conventional computing is about finding solutions with the help of algorithms implemented by the programmers. This report tells the major differences between conventional computing and Intelligent computing and also conclude which of them could be a better approach to follow and why.***

**Introduction:**

Conventional computing is computing based on Algorithms in which instructions are programmed and are executed in the same way.

Intelligent computing is not based on Algorithms but based on knowledge based information. It interacts with the environment, learns from it and responds with reasoning over the knowledge base to search and perform specific patterns.

**Difference between Conventional and Intelligent computing:**

The main difference between Conventional and Intelligent computing is that Conventional computing guarantees a solution to a given problem, while Intelligent computing does not. The results produced by Conventional computing are reliable and consistent, as it solves the problem according to the programmer’s exact instructions (algorithm). Where as those of intelligent computing are not the same.

Conventional computing uses sequential processing, i.e. it completes a task, then the next task, and then the next after that. Conventional computing is often unable to manage the variability of data obtained in the real world. On the other hand, intelligent computing is like a human brain. It is well suited to situations that have no specific algorithms or procedure and are able to manage more complex or problematic data.

A conventional computer can only work within the situations for which it is programmed as it knows the algorithm to function in only such conditions. It can have a high speed and accuracy but the results would be what the programmers have programmed. It will act as it is supposed to according to the coder. While an intelligent system, much like humans make decisions only and completely by its own reasoning technique. It would be able to learn and in behave accordingly, constantly reprogram itself. It would be able to make decisions based on a more ethical or moral, not a programmed factual manner.

In general, Conventional computing is supposed to do what its programmed for, It cannot show any signs of logical reasoning or smart solutions as compared to Intelligent computing.

**Conclusion:**

It cannot be said that one form of technique of computing is better than the other or vice versa. It depends on the kind of problem for which a solution is to be found, but, Artificial intelligence is a better approach in most of the conditions as it provides smart solutions.