

Artificial Intelligence

The Name: John McCarthy, Assistant Professor, Dartmouth College coined the name in 1955.

What is it (Bijoy's version): A misnomer that has emerged from the fact that a computer can be programmed to perform tasks (Robotics) that require decision making as well as can be trained to learn by processing a large amount of information (Machine learning).

What can a network of computers do:

- 1. Can learn to perform tasks repeatedly based on “programs” written by humans (Robotics).**
- 2. Can learn using “training sets” based on the information presented by humans.**
- 3. Can quickly process a large amount of information to learn how to perform a set of tasks.**
- 4. Can continuously learn from a large number and variety of experiences under human supervision or by talking others.**
- 5. Can modify its own “program” as well as modify knowledge of other computers.**

What may go wrong:

- 1. Computer fault can go undetected until it causes damage.**
- 2. Personal and private data may get misused without knowledge of the affected person.**
- 3. Systems dependent on computers, can be sabotaged.**
- 4. “Fake” data and conclusions can easily be generated and propagated.**
- 5. Computers can covertly influence other computers that we rely upon.**