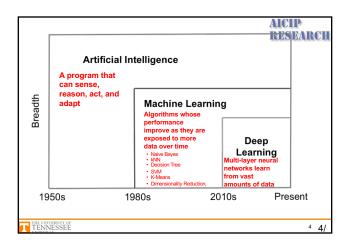
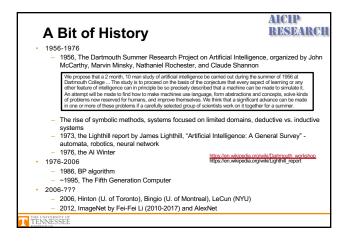




1



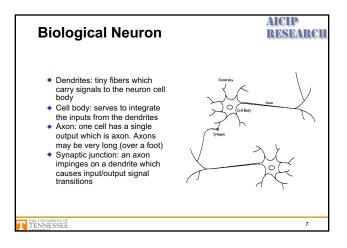


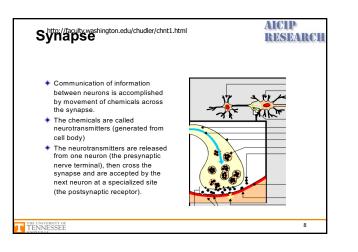


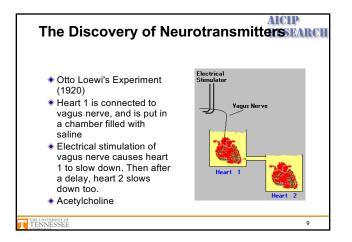
## A Wrong Direction One argument: Instead of understanding the human brain, we understand the computer. Therefore, NN dies out in 70s. 1980s, Japan started "the fifth generation computer research project", namely, "knowledge information processing computer system". The project aims to improve logical reasoning to reach the speed of numerical calculation. This project proved an abortion, but it brought another climax to AI research and NN research.

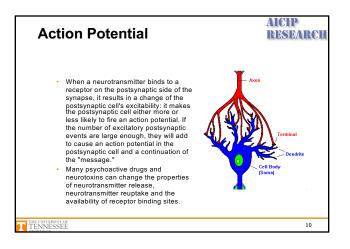
6

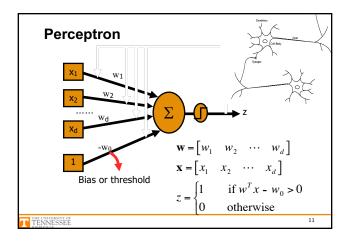
TENNESSEE













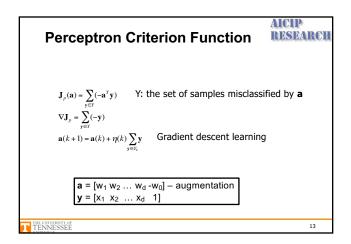
## Perceptron A program that learns "concepts" based on examples and correct answers It can only respond with "true" or "false" Single layer neural network

• By training, the weight and bias of the network will be changed to be able to classify the training set with 100% accuracy

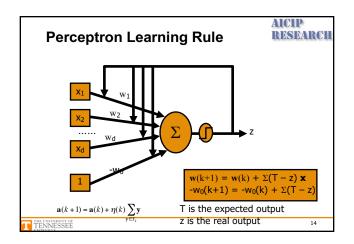
AICIP RESEARCH

12

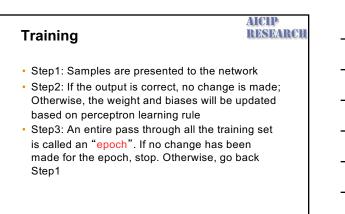
TENNESSEE





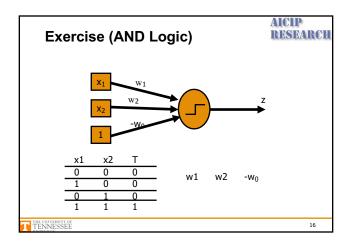




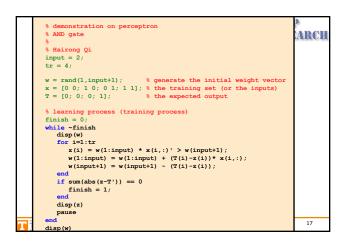


15

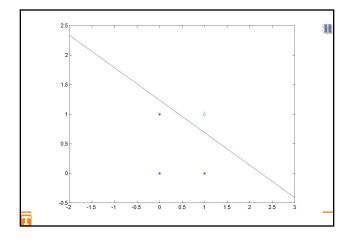
TENNESSEE













## Limitations

TENNESSEE

## AICIP RESEARCH

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- The output only has two values (1 or 0)
- Can only classify samples which are linearly separable (straight line or straight plane)
- Can't train network functions like XOR

