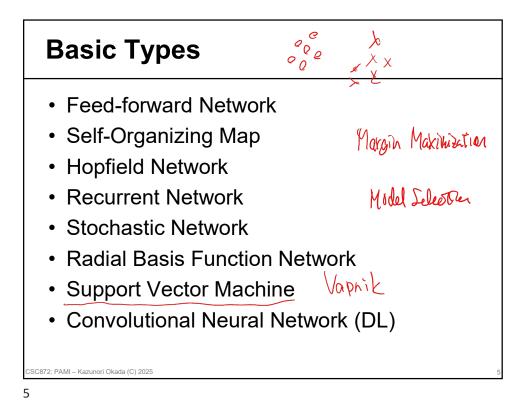
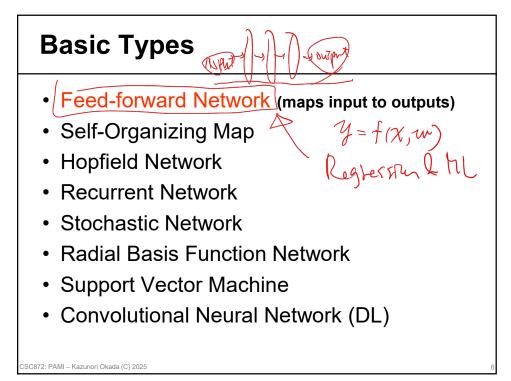
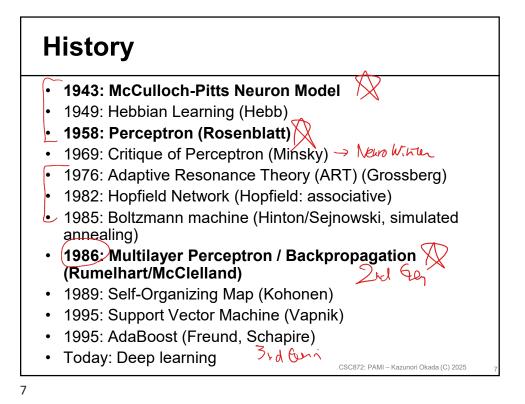


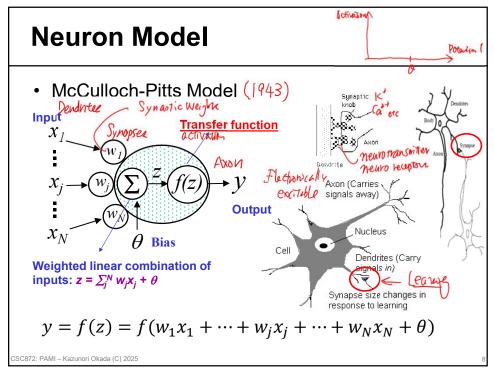
**Application** Pattern Classifications - Object & Speech recognition - Handwritten letter recognition Credit scoring Control - Robot - Autonomous vehicle Time series modeling - S&P 500 Index prediction, LBS capital management, FL - Natural gas price, Northern Natural Gas, NE - Jury summoning prediction, Montgomery Courthouse, PA Optimization - Multiprocessor scheduling - VLSI placement Recent Apps Includes Self-Driving and Go-game etc

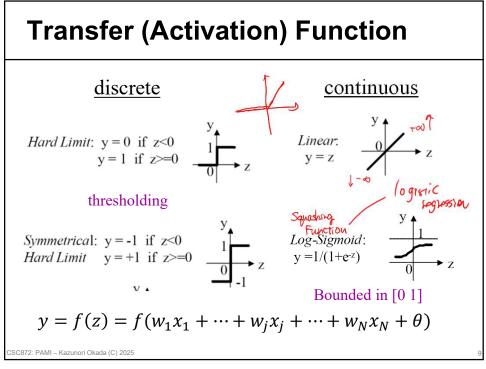
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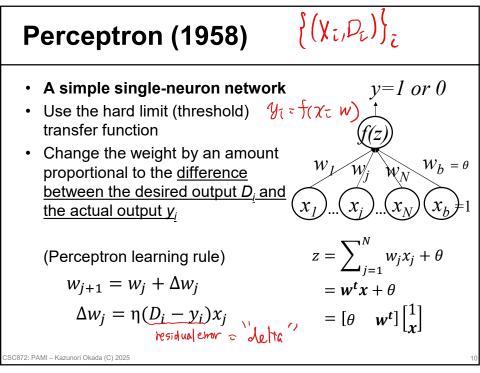


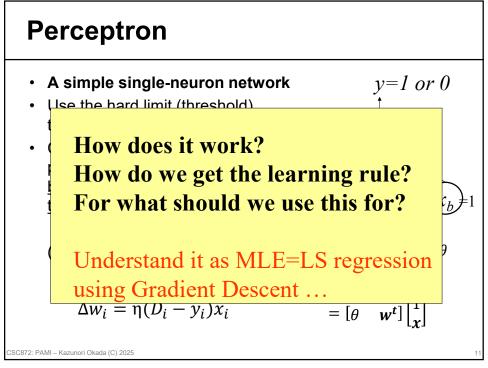


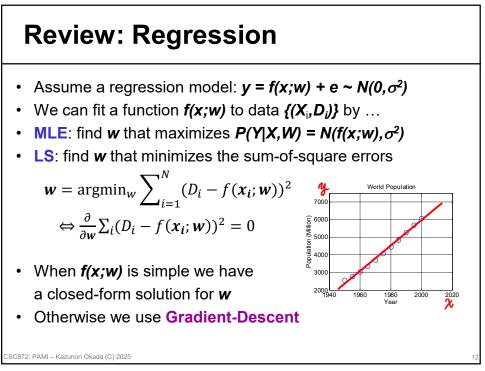


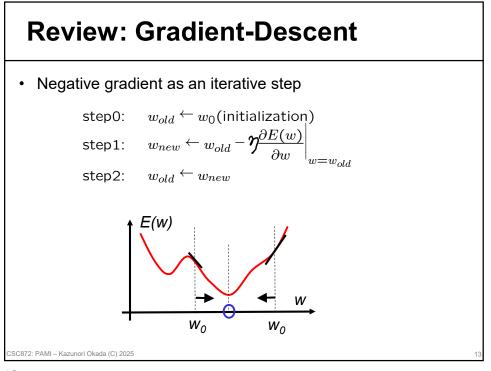






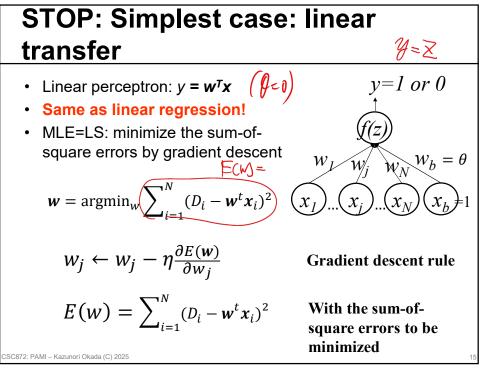


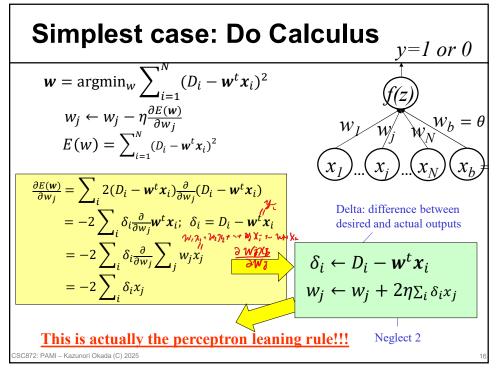


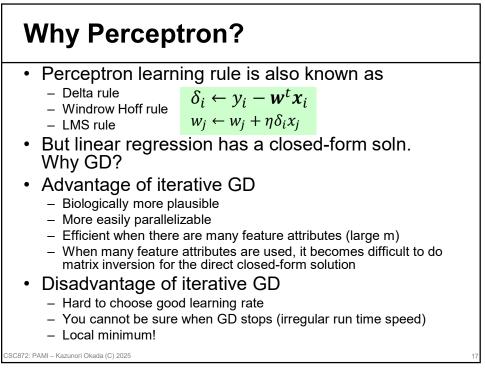


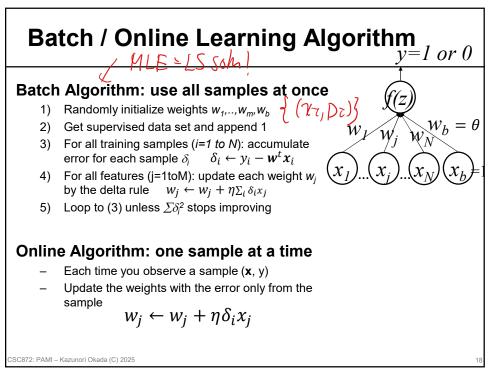


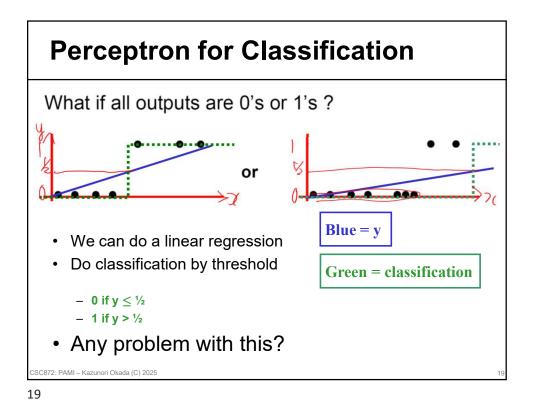
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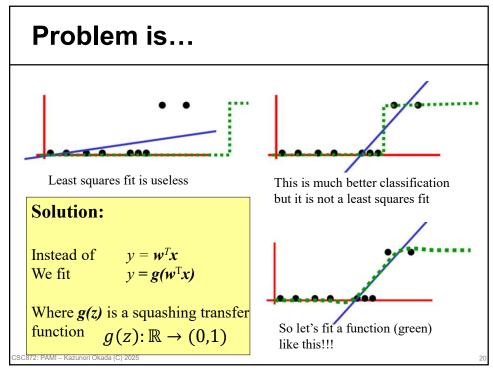


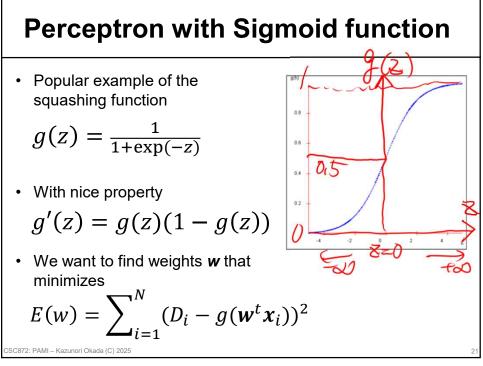


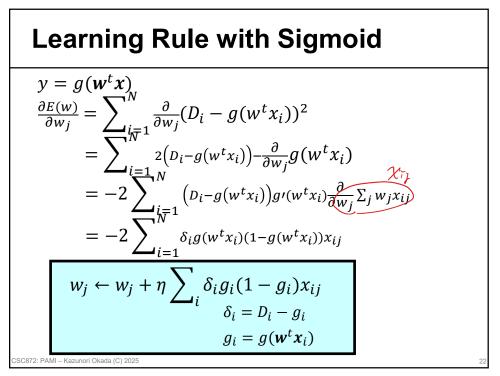


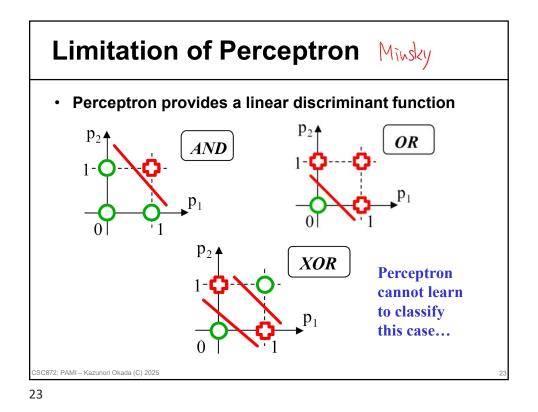


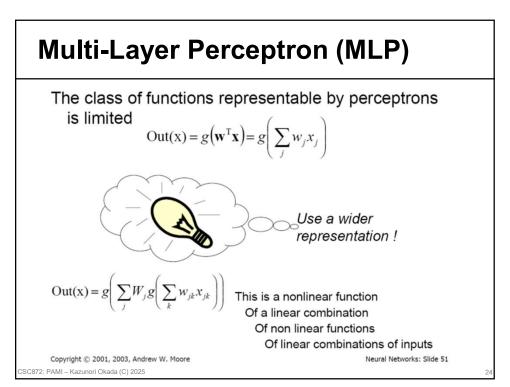


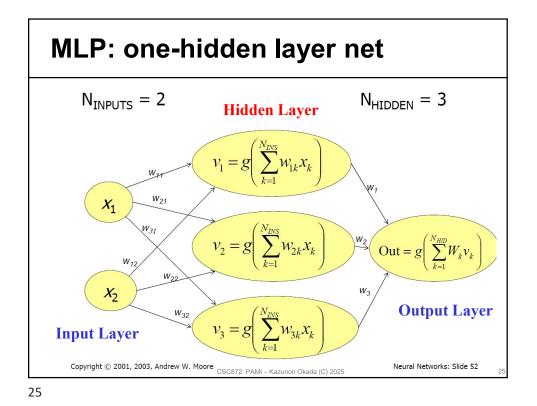


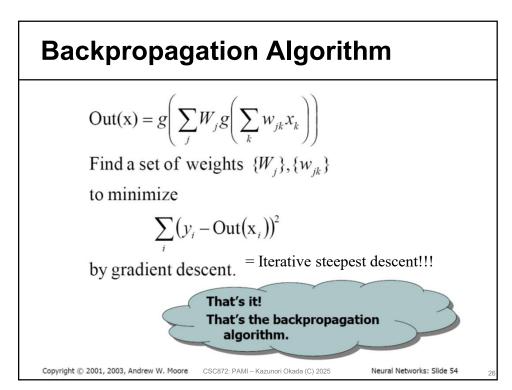


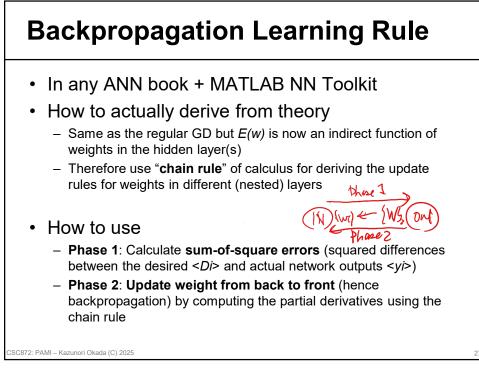


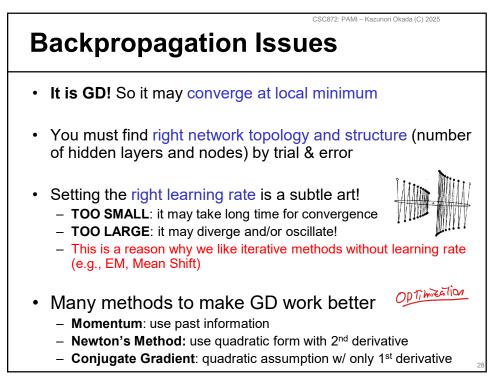












## Summary

- Artificial Neural Network
  - Types of Various ANNs
  - Neuron Model
  - Linear Perceptron
  - Delta Learning Rule
  - Sigmoid Perceptron
  - Limitation of Perceptron
  - Multi-Layer Perceptron
  - Back propagation

## • Next: Deep Neural Networks

- Last lectures.
- No in-class exercises.

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