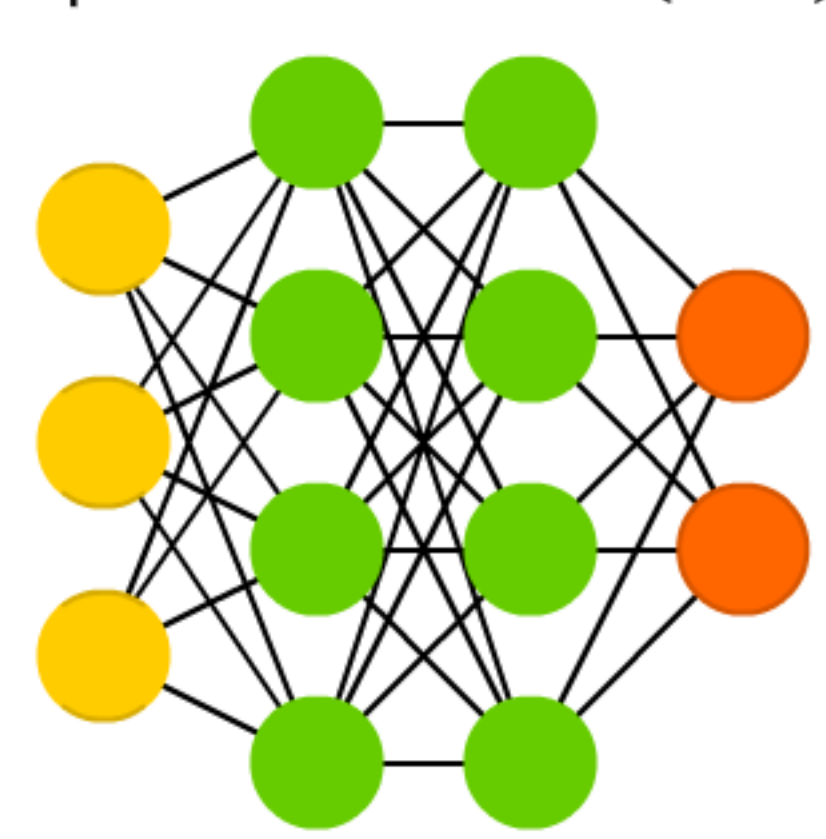# A mostly complete chart of
Neural Networks
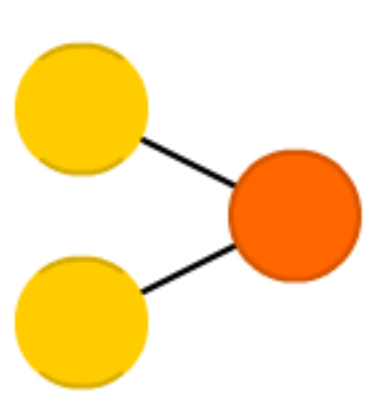
©2016 Fjodor van Veen - asimovinstitute.org

Legend

- ○ Backfed Input Cell
- ● Input Cell
- △ Noisy Input Cell
- ● Hidden Cell
- ◉ Probablistic Hidden Cell
- ◬ Spiking Hidden Cell
- ● Output Cell
- ◉ Match Input Output Cell
- ● Recurrent Cell
- ◉ Memory Cell
- ◬ Different Memory Cell
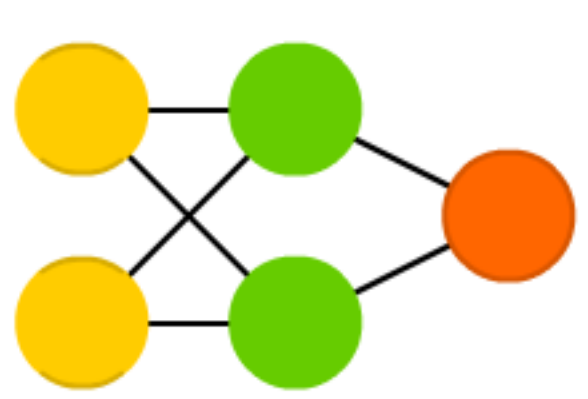- ● Kernel
- ◉ Convolution or Pool
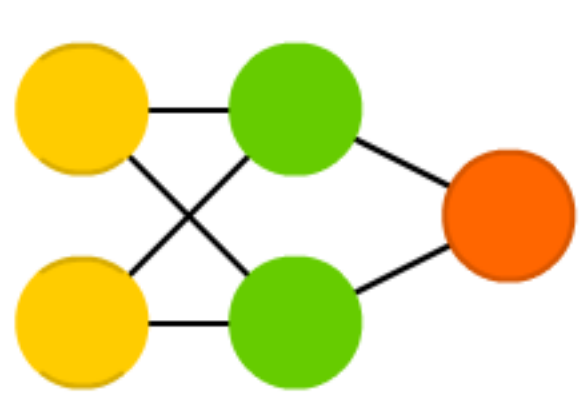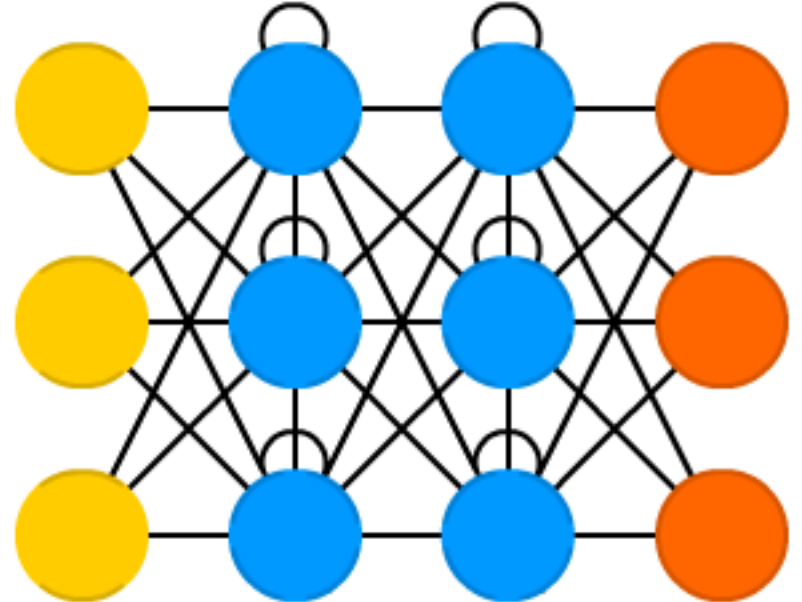
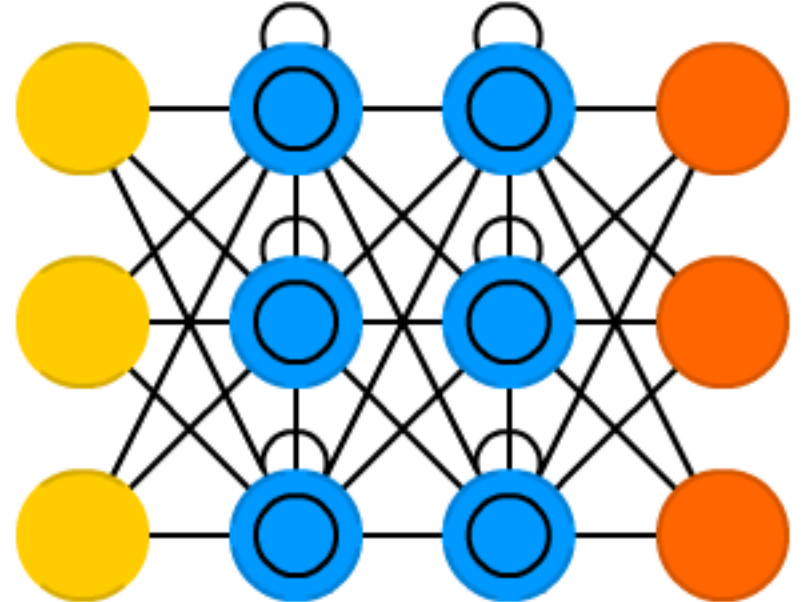Deep Feed Forward (DFF)

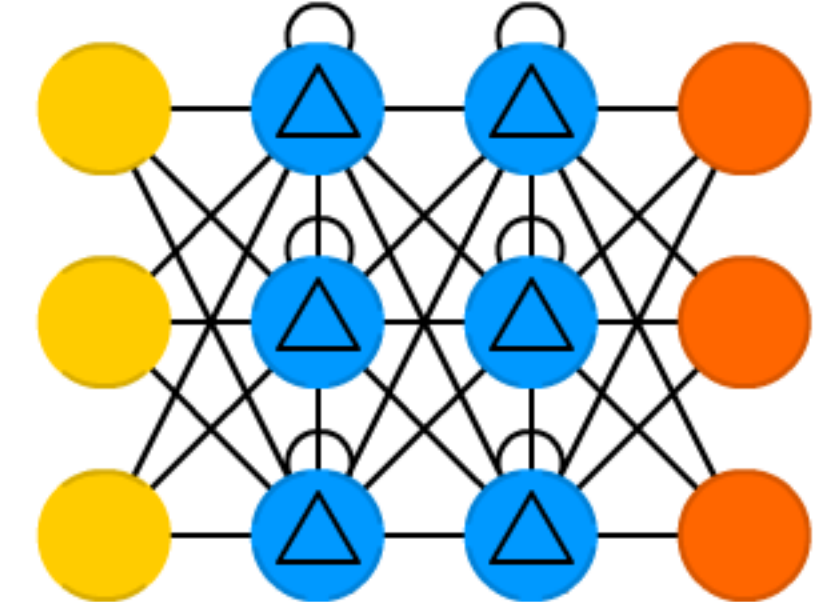Perceptron (P)

Feed Forward (FF)

Radial Basis Network (RBF)
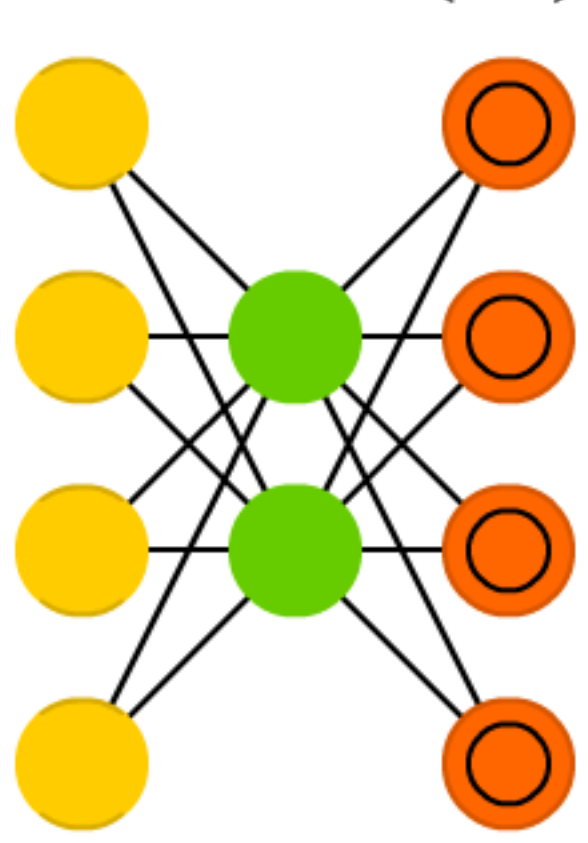
Recurrent Neural Network (RNN)
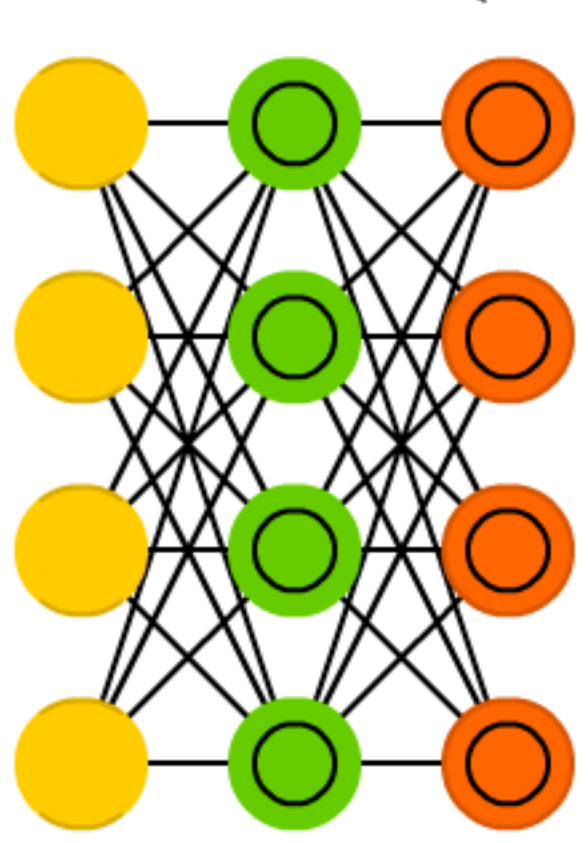
Long / Short Term Memory (LSTM)
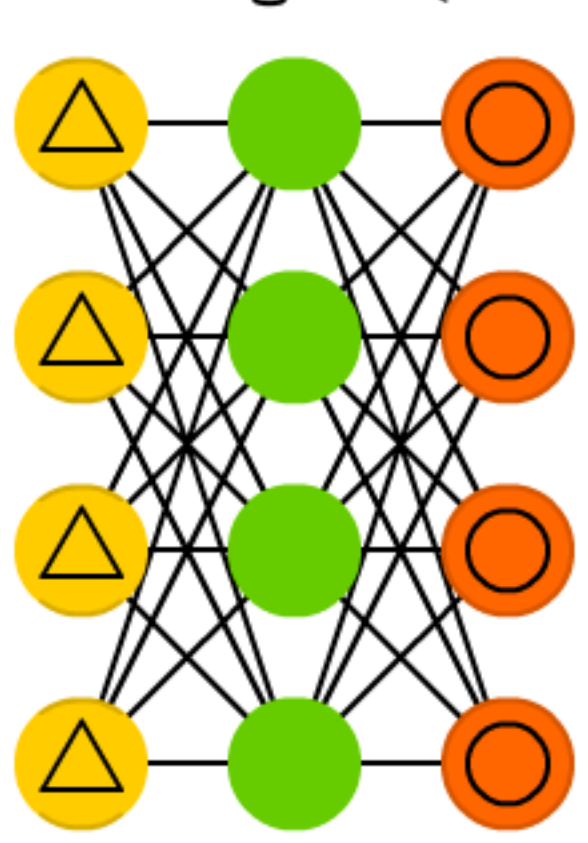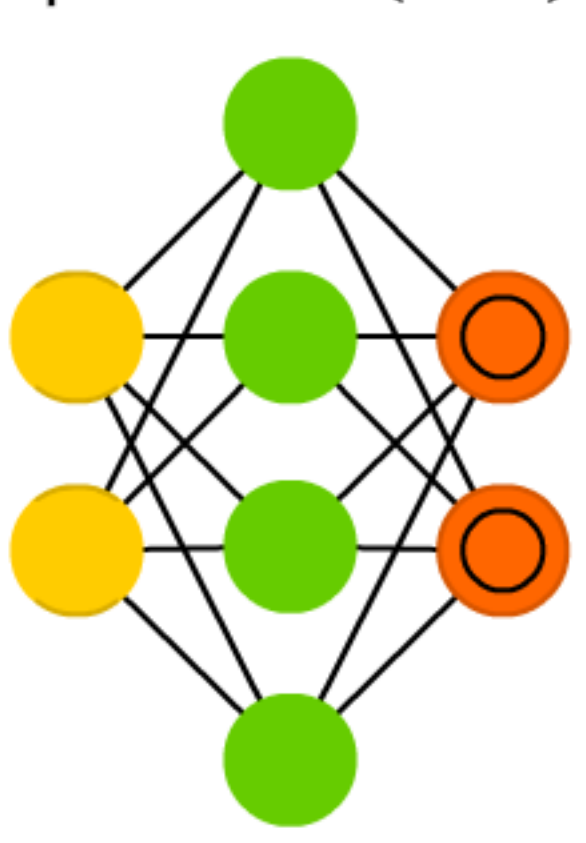
Gated Recurrent Unit (GRU)
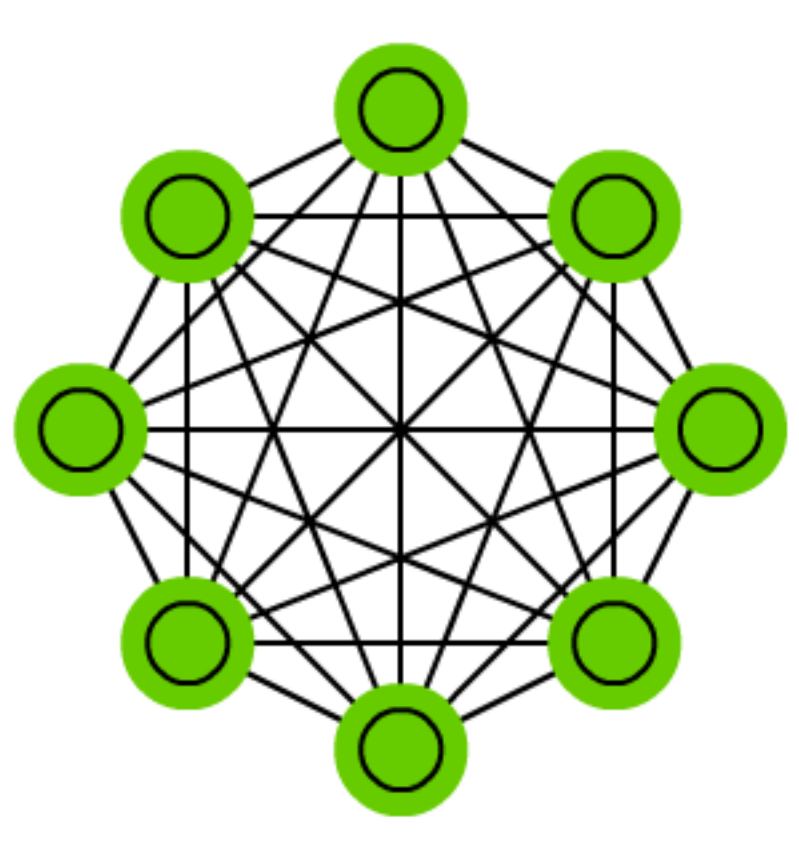
Auto Encoder (AE)
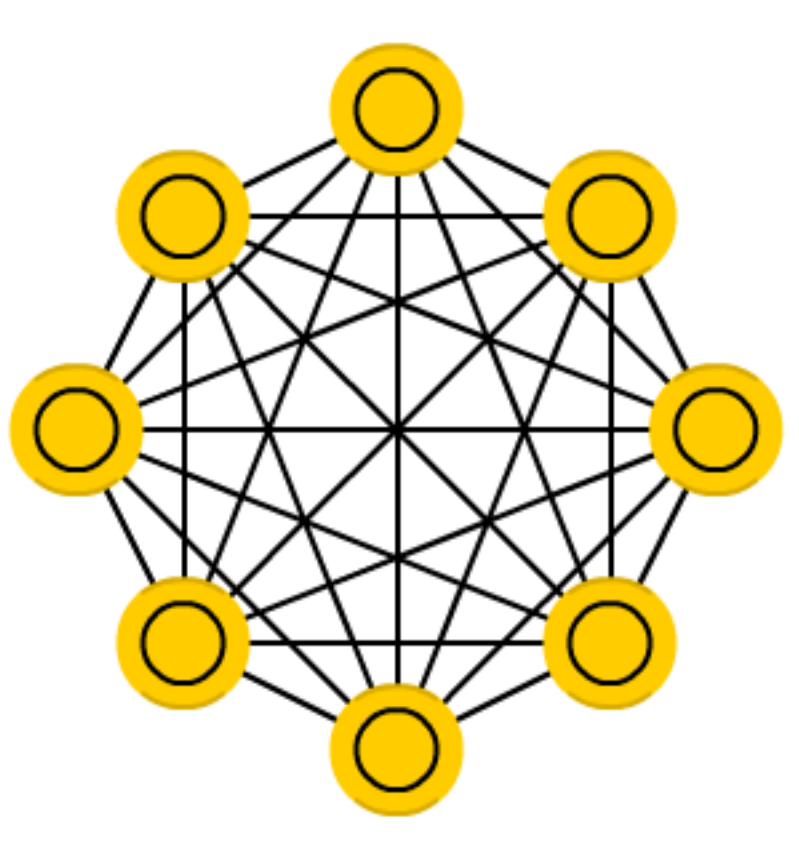
Variational AE (VAE)

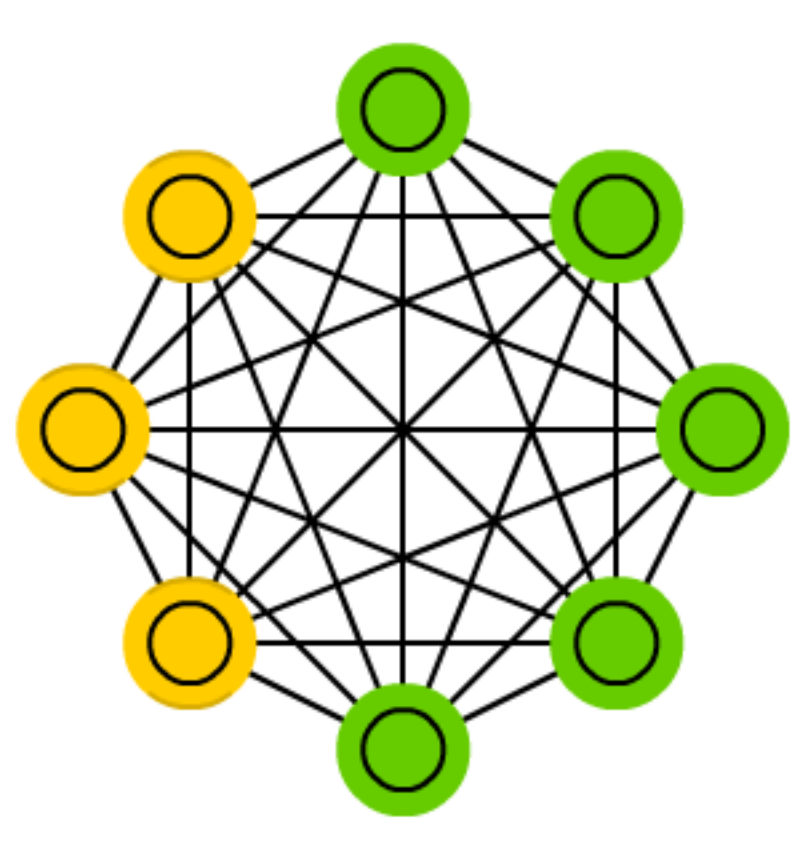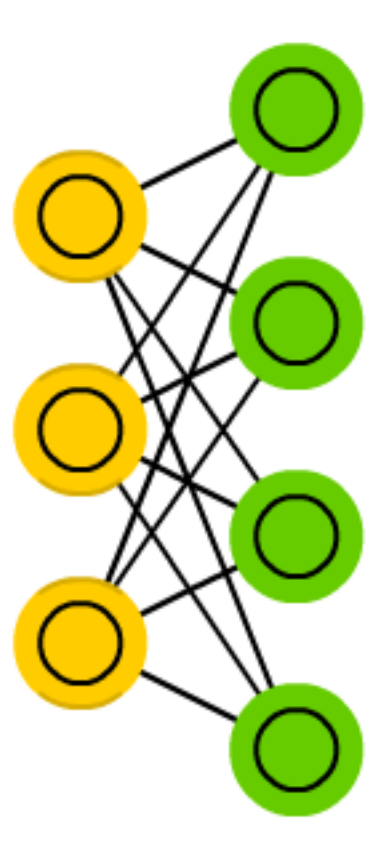Denoising AE (DAE)

Sparse AE (SAE)
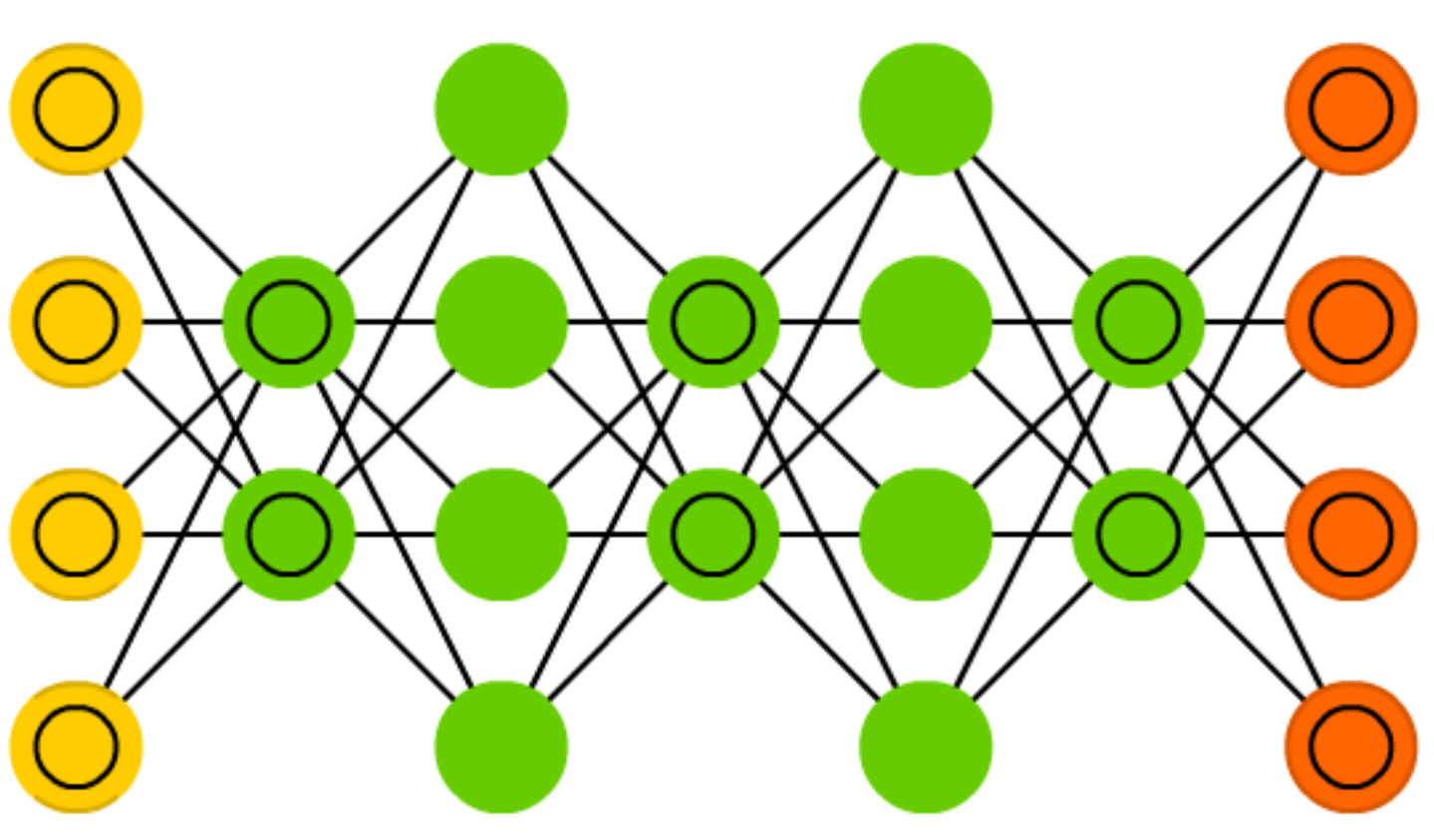
Markov Chain (MC)
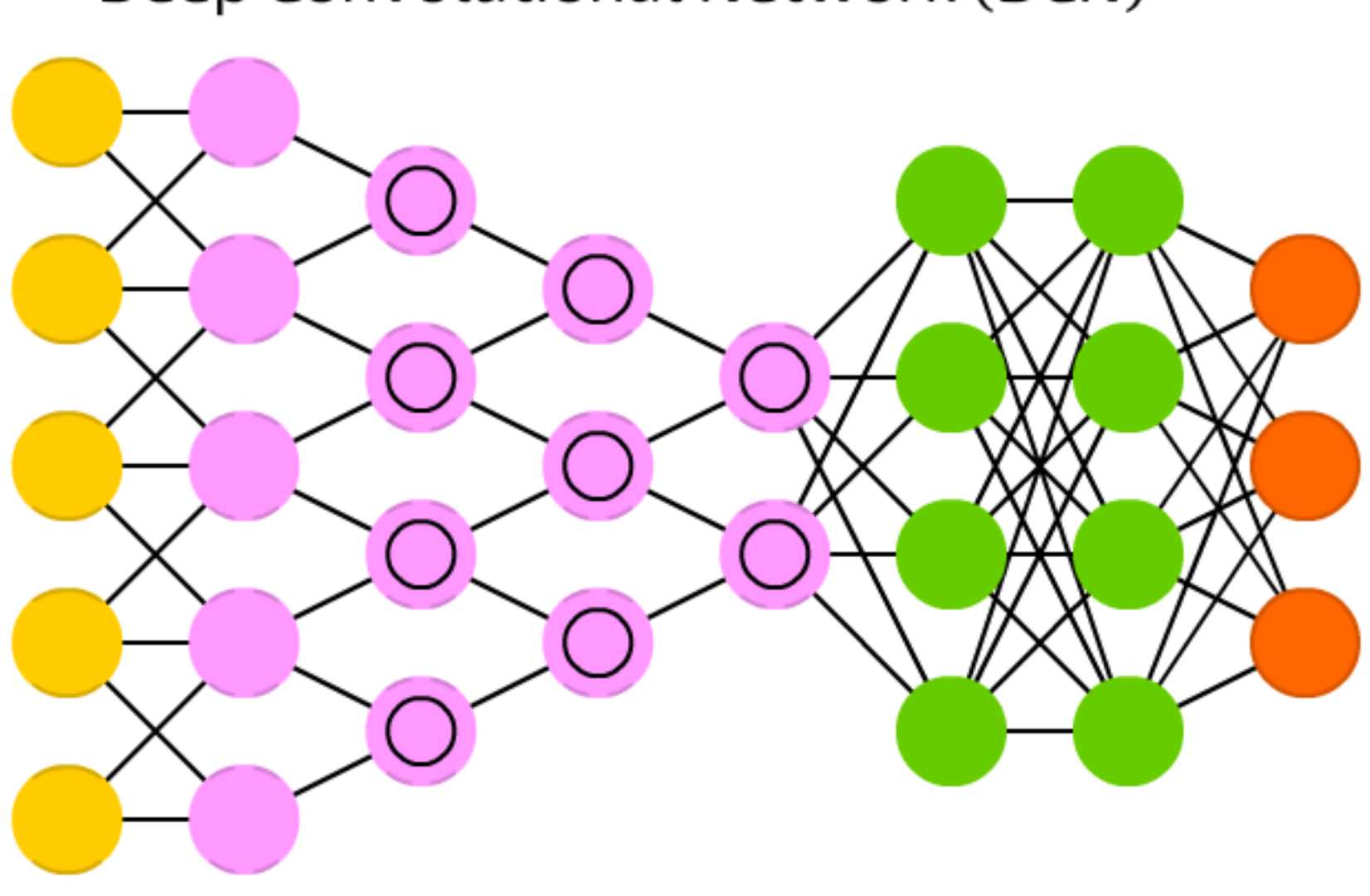
Hopfield Network (HN)

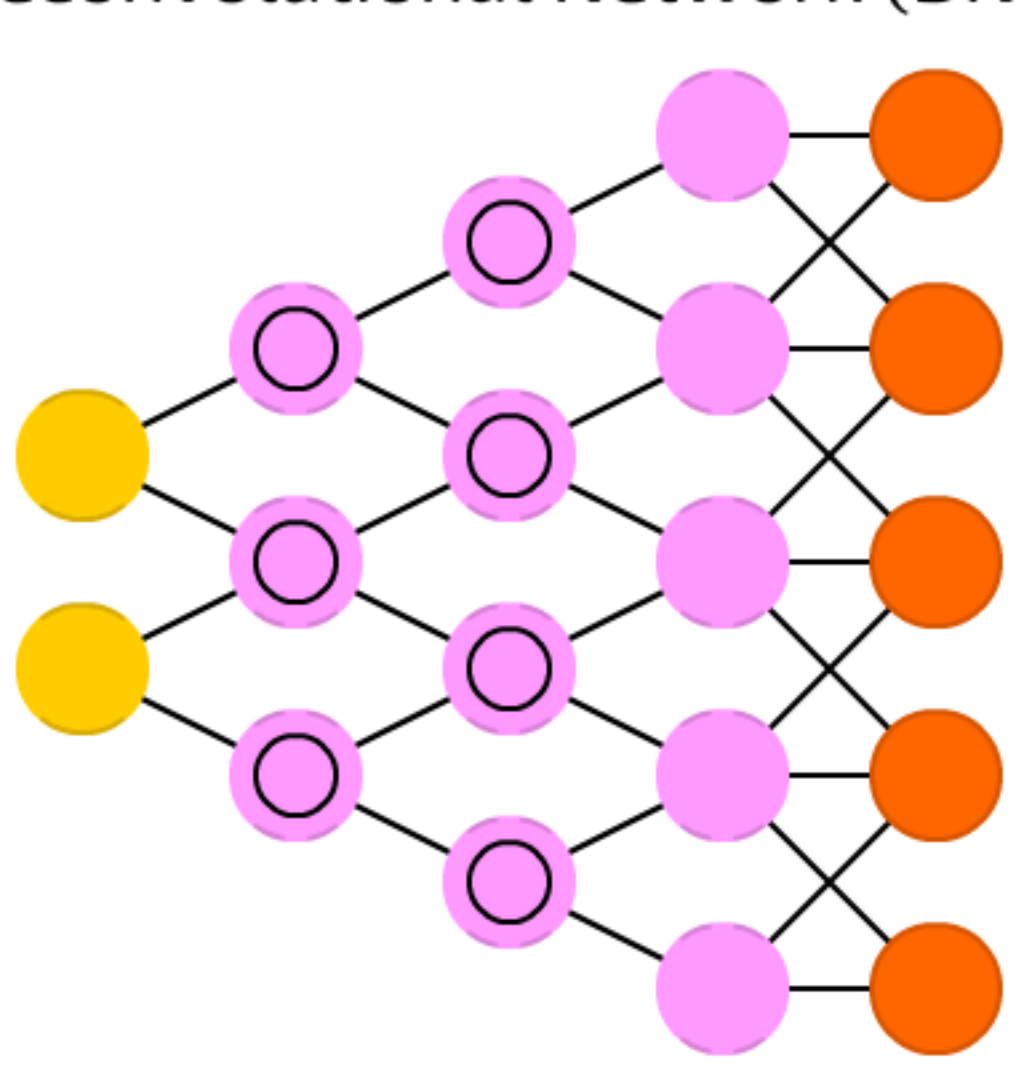Boltzmann Machine (BM)
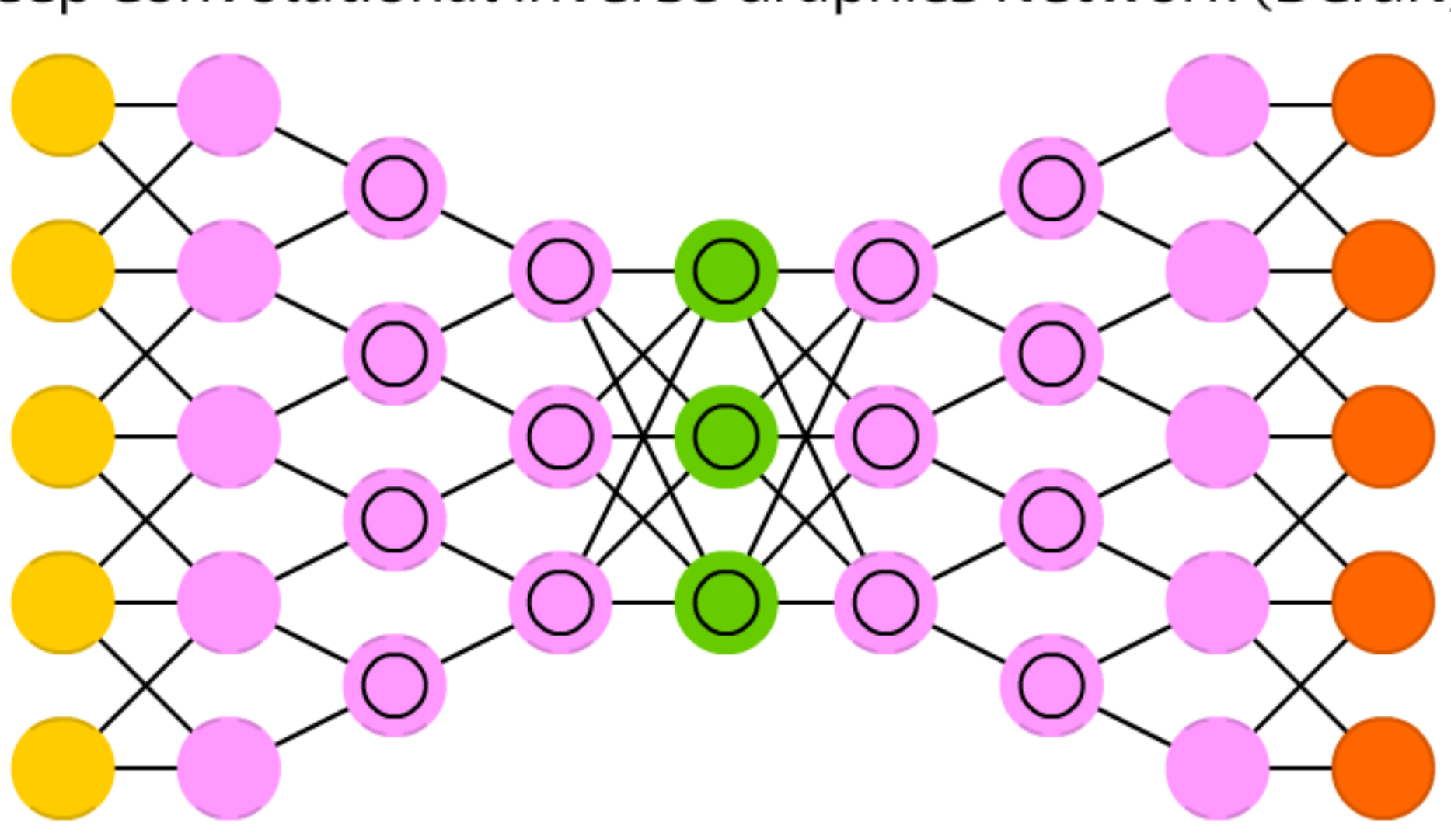
Restricted BM (RBM)

Deep Belief Network (DBN)

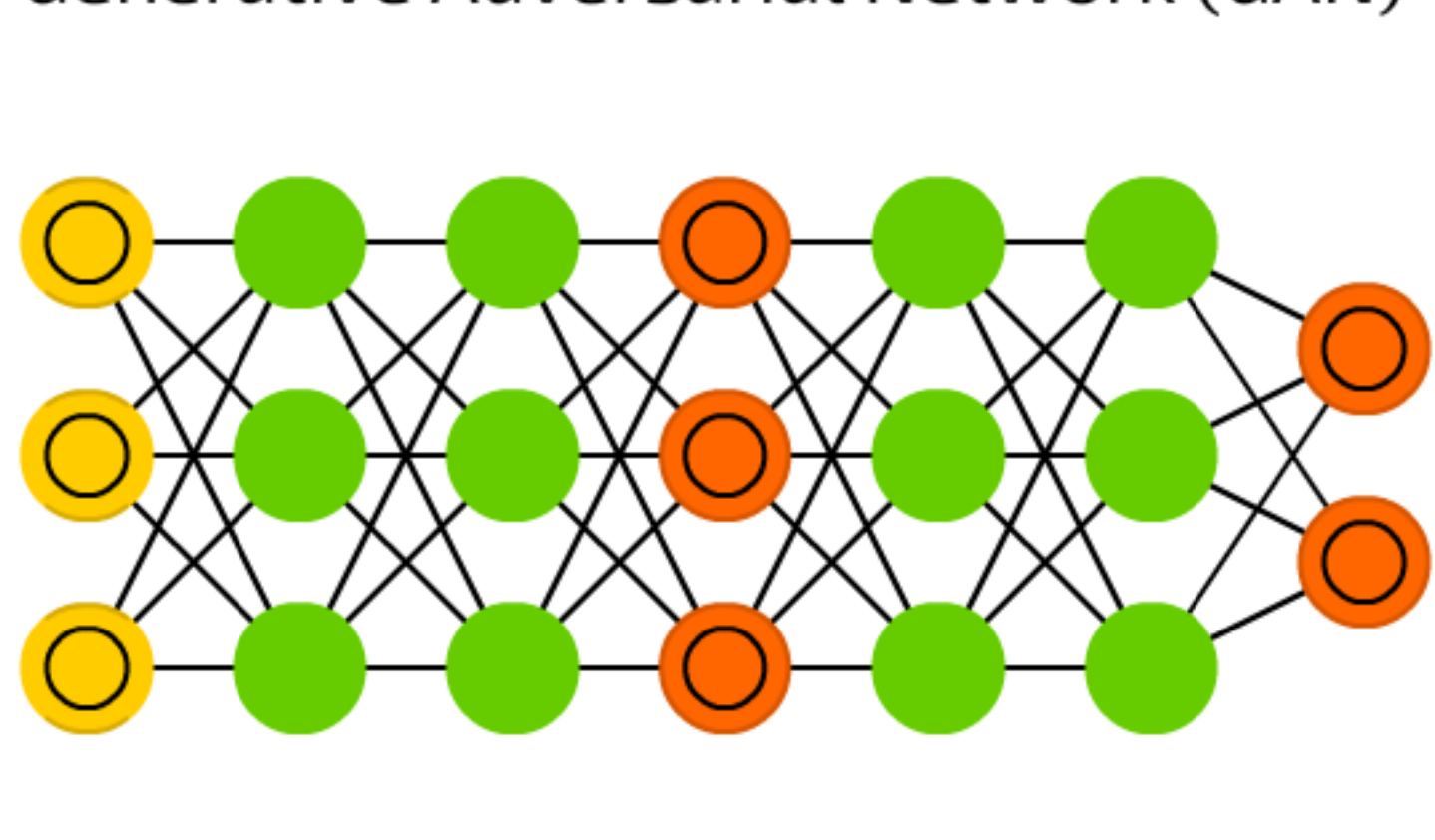Deep Convolutional Network (DCN)

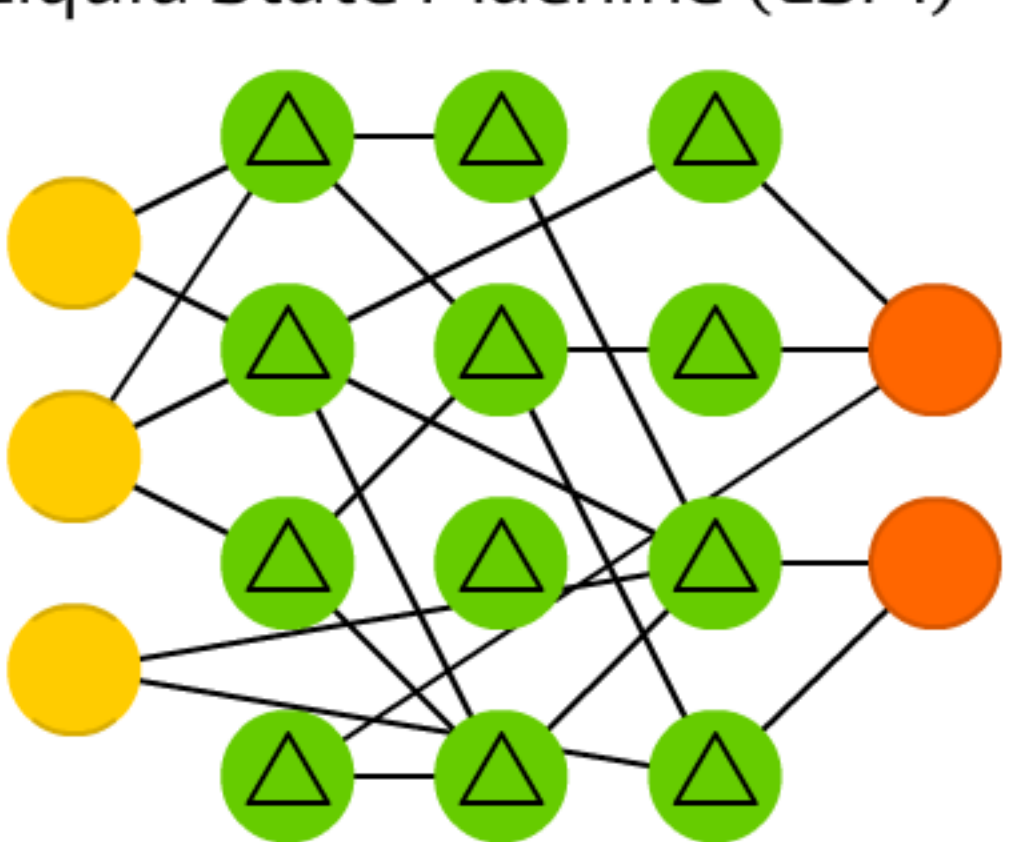Deconvolutional Network (DN)

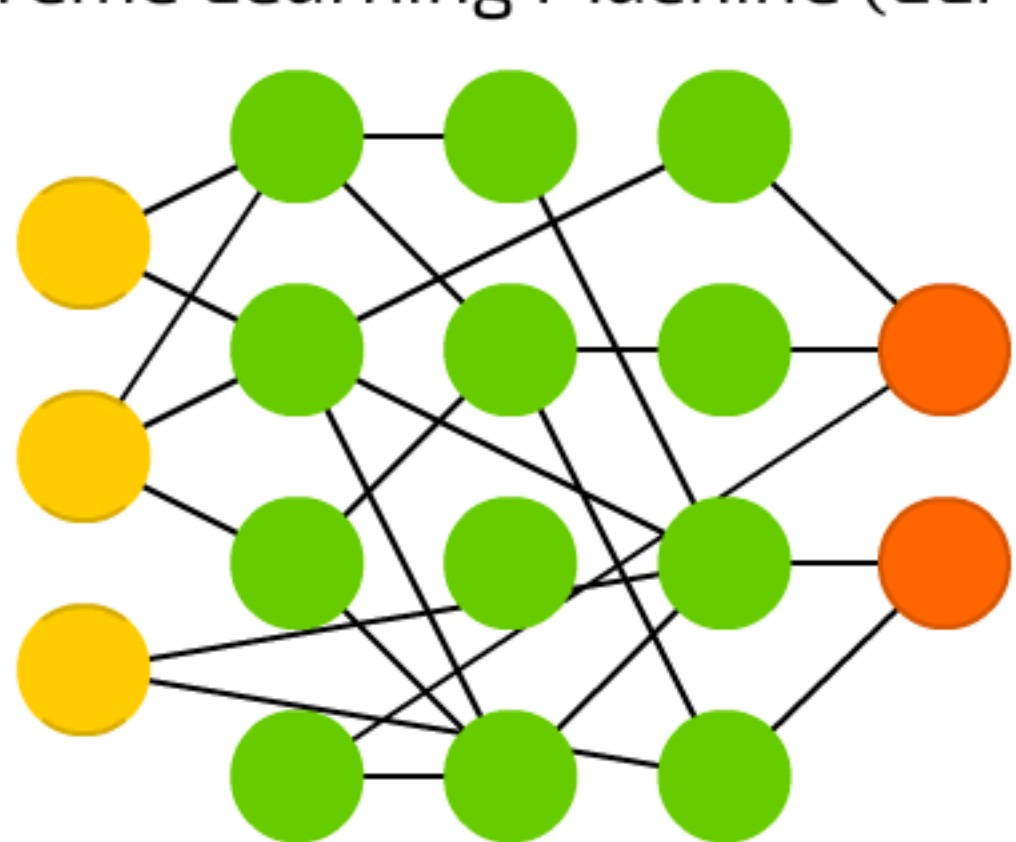Deep Convolutional Inverse Graphics Network (DCIGN)

Generative Adversarial Network (GAN)
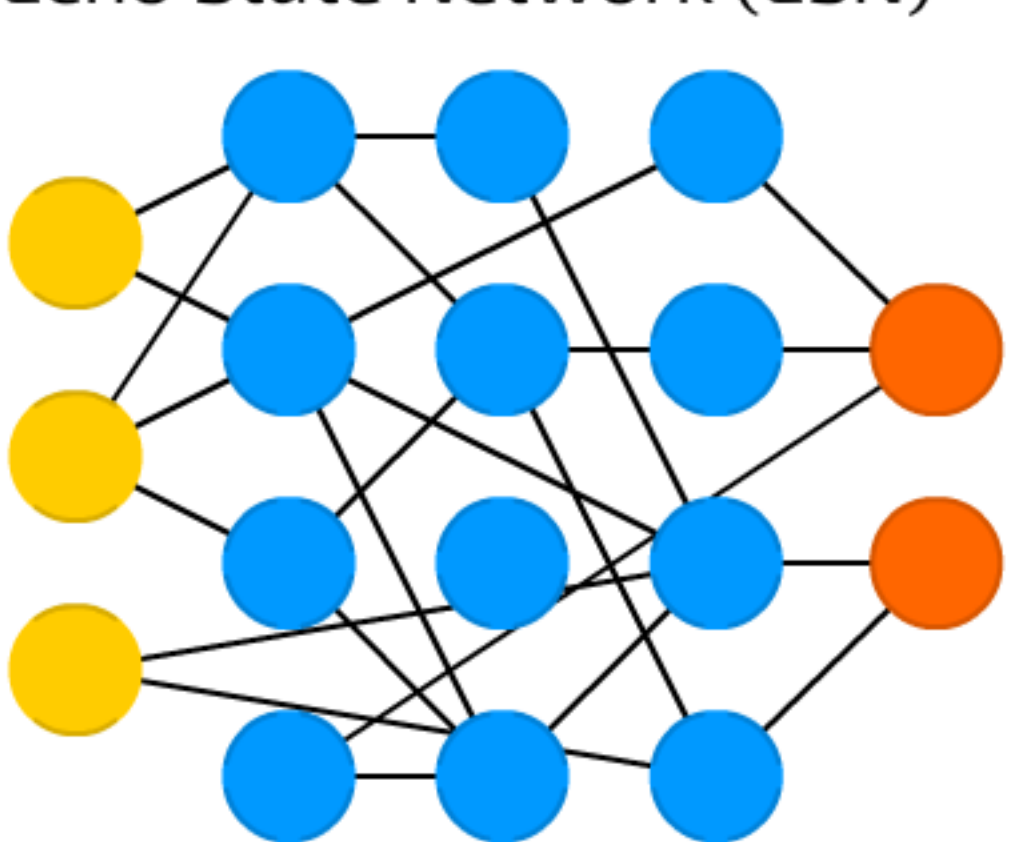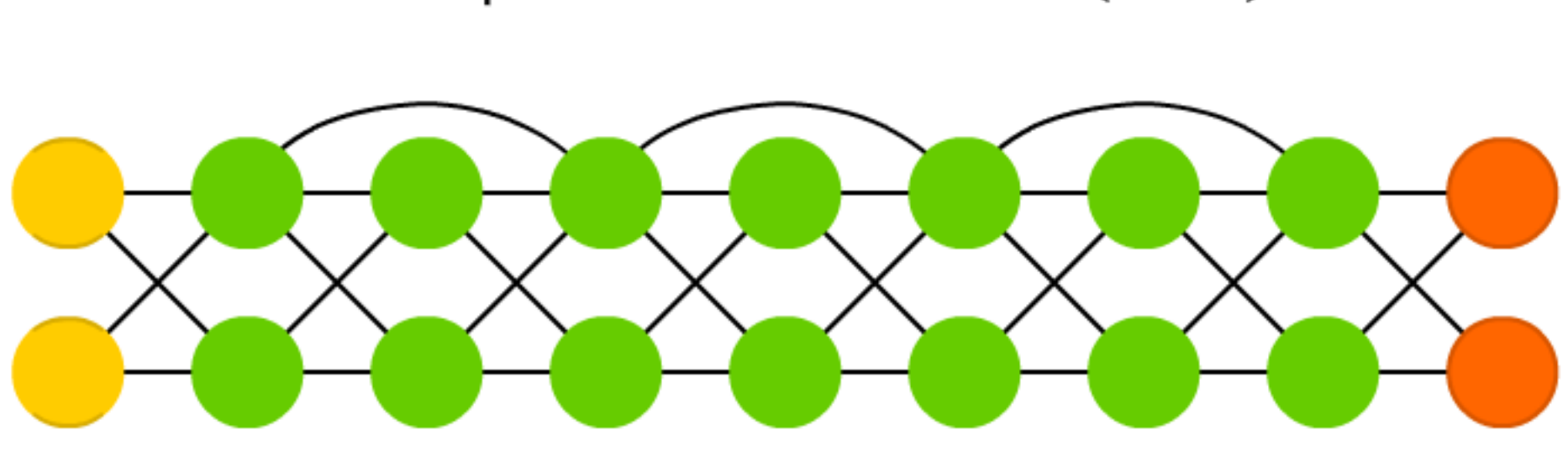
Liquid State Machine (LSM)

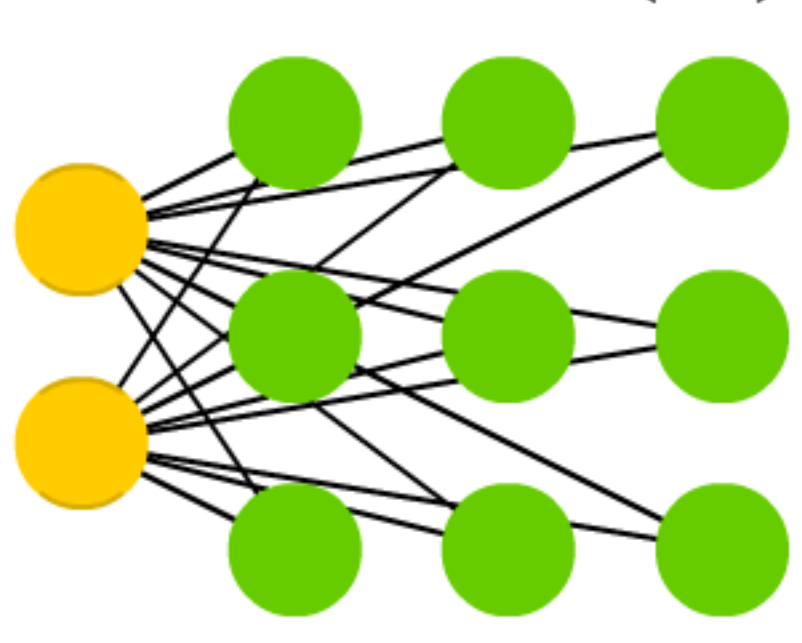Extreme Learning Machine (ELM)
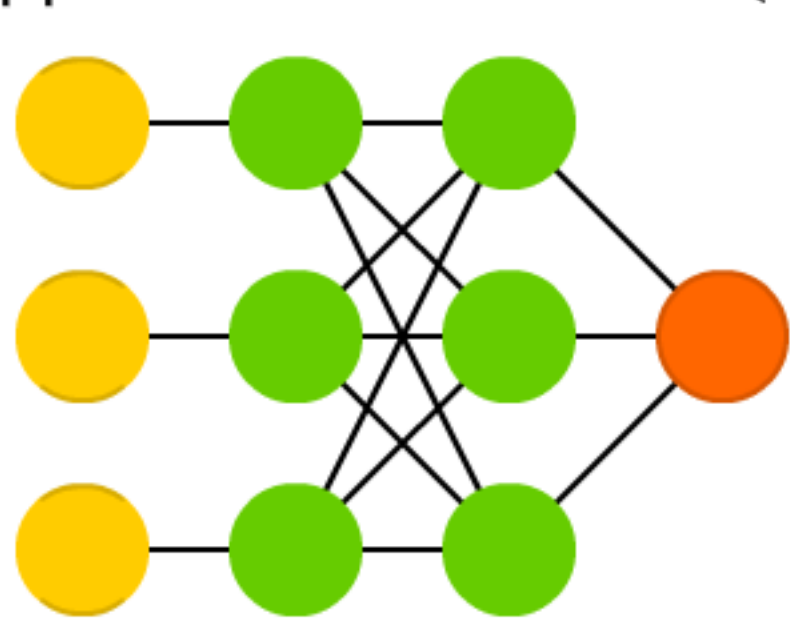
Echo State Network (ESN)

Deep Residual Network (DRN)

Kohonen Network (KN)

Support Vector Machine (SVM)

Neural Turing Machine (NTM)