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In recent years, deep artificial neural networks (including recurrent ones) have won numerous contests in pattern recognition and machine learning.

Deep learning in neural networks: An overview - ScienceDirect

Neural Discrete Representation Learning Aaron van den Oord DeepMind avdnoord@google.com Oriol Vinyals DeepMind vinyals@google.com Koray Kavukcuoglu DeepMind

Neural Discrete Representation Learning - arXiv

An artificial neural network is a network of simple elements called artificial neurons, which receive input, change their internal state (activation) according to that input, and produce output depending on the input and activation.. An artificial neuron mimics the working of a biophysical neuron with inputs and outputs, but is not a biological neuron model.

Artificial neural network - Wikipedia

IEEE Transactions on Neural Networks and Learning Systems publishes technical articles that deal with the theory, design, and applications of neural networks and related learning systems.

IEEE Transactions on Neural Networks and Learning Systems

A recurrent neural network (RNN) is a class of artificial neural network where connections between nodes form a directed graph along a sequence. This allows it to exhibit temporal dynamic behavior for a time sequence. Unlike feedforward neural networks, RNNs can use their internal state (memory) to process sequences of inputs. This makes them applicable to tasks such as unsegmented, connected ...

Recurrent neural network - Wikipedia

Improving neural networks by preventing co-adaptation of feature detectors G. E. Hinton , N. Srivastava, A. Krizhevsky, I. Sutskever and R. R. Salakhutdinov

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Recurrent neural networks are one of the staples of deep learning, allowing neural networks to work with sequences of data like text, audio and video.

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