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ImageNet Classification with Deep Convolutional Neural Networks (Paper Explained) STDP-based spiking deep convolutional neural networks for object recognition

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Whiteboard Wednesdays - Introduction to Convolutional Neural Networks (CNN) [Attention in Neural Networks](#) ~~Deep Learning with Python (Book Review)~~ Week#2: Optimizing FPGA-based Accelerator Design for Deep Convolutional Neural Networks ~~Deep Convolutional Neural Network Based~~

Driven by increasing computing power and improving big data management, machine and deep learning-based convolutional neural networks (such as the Deep Convolutional Neural Network [DCNN]) can recognize and localize objects in medical images, 13–15 enabling disease characterization, tissue and lesion segmentation, and improved image reconstruction. 16–19 A single-center study using a homogenous dataset consisting of a standardized

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pulse sequence protocol from the same 3-T MRI scanner has ...

~~Deep Convolutional Neural Network Based Diagnosis of ...~~

Deep Convolutional Neural Network-Based Epileptic Electroencephalogram (EEG) Signal Classification Front Neurol. 2020 May 22;11:375. doi: 10.3389/fneur.2020.00375. eCollection 2020. Authors Yunyuan Gao 1 ...

~~Deep Convolutional Neural Network Based Epileptic ...~~

In deep learning, a convolutional neural network (CNN, or ConvNet) is a class of deep neural networks, most commonly applied to analyzing visual imagery. They are also known as shift invariant or space invariant artificial neural networks (SIANN), based on their shared-weights architecture and translation invariance characteristics.

~~Convolutional neural network - Wikipedia~~

A novel deep Convolutional Neural Network (CNN) based regression approach for estimating the RUL is proposed in this paper. Although CNN has been applied on tasks such as computer vision, natural language processing, speech recognition etc., this is the first attempt to adopt CNN for RUL estimation in prognostics.

~~Deep Convolutional Neural Network Based Regression ...~~

Deep learning is a newer and advanced subfield in machine learning, which taps into neural networks and simulates the human brain in decision-making. It

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requires a huge database for training. A deep neural network consists of convolutional layers and pooling layers as shown in Fig. 1 .

~~Validation of Deep Convolutional Neural Network-based ...~~

A convolutional neural network, or CNN, is a deep learning neural network designed for processing structured arrays of data such as images.

Convolutional neural networks are widely used in computer vision and have become the state of the art for many visual applications such as image classification, and have also found success in natural language processing for text classification.

~~Convolutional Neural Network Definition | DeepAI~~

In this paper, an innovative modelling approach based on a deep convolutional neural network (CNN) method is presented for rapid prediction of fluvial flood inundation. The CNN model is trained using outputs from a 2D hydraulic model (i.e. LISFLOOD-FP) to predict water depths.

~~A deep convolutional neural network model for rapid ...~~

A CNN sequence to classify handwritten digits. A Convolutional Neural Network (ConvNet/CNN) is a Deep Learning algorithm which can take in an input image, assign importance (learnable weights and biases) to various aspects/objects in the image and be able to differentiate one from the other. The pre-processing required in a ConvNet is much lower as compared to other classification algorithms.

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~~A Comprehensive Guide to Convolutional Neural Networks ...~~

Very deep convolutional neural network based image classification using small training sample size

Abstract: Since Krizhevsky won the ImageNet Large Scale Visual Recognition Challenge (ILSVRC) 2012 competition with the brilliant deep convolutional neural networks (D-CNNs), researchers have designed lots of D-CNNs.

~~Very deep convolutional neural network based image ...~~

CAPTCHA recognition based on deep convolutional neural network. Wang J(1), Qin JH(1), Xiang XY(1), Tan Y(1), Pan N(1). Author information: (1)College of Computer Science and Information Technology, Central South University of Forestry and Technology, 498 shaoshan S Rd, Changsha, 410004, China.

~~CAPTCHA recognition based on deep convolutional neural ...~~

Another line of research has demonstrated - using rate-based neural networks trained with back-propagation - that having many layers increases the recognition robustness, an approach known as deep learning. We thus designed a deep SNN, comprising several convolutional (trainable with STDP) and pooling layers.

~~STDP-based spiking deep convolutional neural networks for ...~~

Based on traditional deep convolutional neural network (DCNN) model, we proposed three improvements: (i) We introduced stochastic pooling to

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replace average pooling and max pooling; (ii) We combined conv layer with batch normalization layer and obtained the conv block (CB); (iii) We combined dropout layer with fully connected layer and obtained the fully connected block (FCB).

~~A five-layer deep convolutional neural network with ...~~
A convolutional neural network (CNN or ConvNet), is a network architecture for deep learning which learns directly from data, eliminating the need for manual feature extraction.. CNNs are particularly useful for finding patterns in images to recognize objects, faces, and scenes.

~~Convolutional Neural Network – MATLAB & Simulink~~

This paper introduces AtomNet, the first structure-based, deep convolutional neural network designed to predict the bioactivity of small molecules for drug discovery applications. We demonstrate how to apply the convolutional concepts of feature locality and hierarchical composition to the modeling of bioactivity and chemical interactions.

~~[1510.02855] AtomNet: A Deep Convolutional Neural Network ...~~

Deep learning (also known as deep structured learning) is part of a broader family of machine learning methods based on artificial neural networks with representation learning. Learning can be supervised, semi-supervised or unsupervised.. Deep-learning architectures such as deep neural networks, deep belief networks, recurrent neural networks and convolutional neural networks have been applied ...

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~~Deep learning — Wikipedia~~

In this work, various Deep CNN based approaches are explored for detecting the presence of COVID19 from chest CT images. A decision fusion based approach is also proposed, which combines predictions from multiple individual models, to produce a final prediction.

~~Identifying COVID19 from Chest CT Images: A Deep ...~~

A convolutional neural network is a sort of artificial neural network (ANN) inspired by the performance of visual recognition of objects by animals and human beings' cortex, which is used for...

~~Deep Convolutional Neural Network Based Approaches for ...~~

A two-phase deep convolutional neural network of simple architecture was then used to concentrate more on hard-to-classify non-mitoses. To reduce skewness in class distribution (of mitoses vs non-mitoses), the information from phase-1 CNN was used to identify easy, normal, and hard non-mitoses.

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