Deep Convolutional Neural Network Based Approach For

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Deep Convolutional Neural Network Based

Convolutional Neural Network based Multiple-Rate ...
Convolutional Neural Network based Multiple-Rate Compressive Sensing for Massive MIMO CSI Feedback: Design, Simulation, and Analysis Jiajia Guo, Chao-Kai Wen, Member, IEEE, Shi Jin, Senior Member, IEEE, and Geoffrey Ye Li, Fellow, IEEE Abstract Massive multiple-input multiple-output (MIMO) is a promising technology to increase link capacity
Some Improvements on Deep Convolutional Neural Network ...
Some Improvements on Deep Convolutional Neural Network Based Image Classification Andrew G Howard Andrew Howard Consulting Ventura, CA 93003 andrewgeraldhoward@gmailcom Abstract We investigate multiple techniques to improve upon the current state of the art deep convolutional neural network based image classification pipeline
Convolutional Neural Network based for Automatic Text ...
Using deep learning for automatic text summarisation requires high investigation in the text representation The texts are re-represented in such a way that they correspond with the basics of deep learning convolutional neural network, like the utilisation of the matrix format as a representation of the text structures in CNN architecture
Palmprint Recognition Based on Deep Convolutional ... - Press
Inspired by the classical MobileNet their performance, a deep convolutional neural network model is proposed to identify palmprint Firstof all, a network structure is designed, which is based on the standard MobileNet model For the perception of the convolution kerne a larger sized the
Design Space Exploration of FPGA-Based Deep Convolutional ...
II Convolutional Neural Network A Background and Overview DCNNs form a subset of arti cial neural networks in which, the transformation from

the input to output fea-ture maps is determined by a set of convolutional kernels Querying a DCNNs in the test phase, which is the focus of this paper, requires forward evaluation of the trained

Emotion Recognition Using Deep Convolutional

Oct 23, 2020 · Keywords: speech emotion recognition; deep convolutional neural network; correlation-based feature selection 1 Introduction Speech is a natural and commonly used medium of interaction among human beings The importance of speech in communication motivates many researchers to develop methods where speech can be used for human—machine interaction

Relation Classification via Convolutional Deep Neural Network

ing Deep Learning to learn features In NLP, such methods are primarily based on learning a distributed representation for each word, which is also called a word embeddings (Turian et al, 2010) Socher et al (2012) present a novel recursive neural network (RNN) for relation classication that learns vectors in

Research on image classification model based on deep ...

powerful and universal deep learning model Convolutional neural network (CNN) is a multilayer neural network, and it is also the most classical and common deep learning framework A new reconstruc-tion algorithm based on convolutional neural networks is proposed by Newman et al [1] and its advantages in speed and performance are demonstrated

Identifying Cognitive Distortion by Convolutional Neural ...

(eg, Dictionaries, Knowledge Bases, Special Tree Kernels, etc) [6] [7] However recently, deep learning approaches are widely used to natural language classification tasks [6] [8] [9] By utilizing the layers with convolving filters, CNN (Convolutional neural networks) can capture the local features of sentences automatically [10]

Development of Compound Fault Diagnosis System for ...

14 hours ago · In this paper, a compound fault diagnosis system for the gearbox based on convolutional neural network (CNN) is developed Specifically, three-axis vibration signals measured by accelerometers are used as the input of the one-dimensional CNN; the detection of the existence and type of the fault is directly output

Optimizing FPGA-based Accelerator Design for Deep ...

Convolutional neural network (CNN) has been widely em-ployed for image recognition because it can achieve high ac-curacy by emulating behavior of optic nerves in living crea-tures Recently, rapid growth of modern applications based on deep learning algorithms has further improved research and implementations Especially, various accelerators for

Automated defect inspection of LED chip using deep ...

The proposed CNN based defect inspector named LEDNet achieves impressively By using a deep convolutional neural network named AlexNet, Krizhevsky et al (2012) achieved top-5 test error

A New Algorithm of SAR Image Target Recognition based on ...

A New Algorithm of SAR Image Target Recognition based on Improved Deep Convolutional Neural Network 3 The mapping in DCNN is a forward propagation process which describes the ”flow of information” through the whole neural network from its input layer to its output layer, so the output of the upper layer is actually the input of the current

Physics-Informed Deep Neural Networks for Transient ...

ABSTRACT In this paper, we propose a deep neural network based model to predict the time evolution of field values in transient electrodynamics The key component of our model is a recurrent neural network, which learns representations of long-term spatial-temporal dependencies in the sequence of …

Optimizing FPGA-based Accelerator Design for Piyawath …

Convolutional neural network (CNN) is a deep learning architecture extended from artificial neural network A CNN design processes data with multiple layers of neuron connections to achieve high accuracy in image recognition Y LeCun 1998, Gradient-based learning applied to document recognition

Inverse design of metasurface optical filters using deep …

from deep residual networks (ResNet)36 to allow smooth backward propagation of the gradients Recently, the revised neural tensor network37 adopted by An et al30 overcame three key challenges that perplexed the previ-ous neural-network-based (NN-based) design schemes: input/output vector dimensional mismatch, inaccurate

WiDet: Wi-Fi Based Device-Free Passive Person Detection …

In a multi-day experiment with 163 walking instances, our deep convolutional neural network-based approach is able to achieve 955% of detection accuracy Our contributions are summarized as follows: •We proposed a Wi-Fi based device-free person detection sys-tem that uses a deep Convolutional Neural Network (CNN) architecture

Deep Video Quality Assessor: From Spatio-temporal Visual …

Our framework, which we call as Deep Video Quality Assessor (DeepVQA), fully utilizes the advantages of a convolutional neural network To predict the spatio-temporal sensitivity map, a fully convolutional model is employed to ex-tract useful information regarding visual perception which is embedded in a …

TRANSFER LEARNING BASED CONVOLUTIONAL NEURAL …

2 CONVOLUTIONAL NEURAL NETWORK (CNN) In this section, we will consider deep neural network analyzes and transfer learning methods CNN is the most frequently used neural network class to analyze visual images in deep learning CNN mainly contains many layers of neural networks, providing solutions especially for image and video recognition,