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Deep Convolutional Neural Network Based

Deep Convolutional Neural Network Based Regression …
our proposed deep convolutional neural network based regression approach for RUL estimation is not only more efficient but also more accurate Keywords: Multivariate time series analysis, Deep Learning, Convolutional Neural Networks, Supervised Learning, Regression Methods, Prognostics, Remaining Useful Life 1 Introduction

Deep Convolutional Neural Network-Based Positron Emission …
the deep neural network in five independent runs and used the average area under receiver-operating characteristic (ROC) curve (AUC) to evaluate its performance, as shown in Figure S2 Based on the probability threshold of 05, patients were predicted to expire within one year after diagnosis (positive)

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

Link Prediction Based on Deep Convolutional Neural Network
Based on the shallow neural network model, they only take advantage of some potential features, and cannot e ectively extract the structural features of links Therefore, this paper proposes a link prediction method based on a deep convolution neural network, which uses deep learning to learn

A Deep Convolutional Neural Network Based on Nested …
A Deep Convolutional Neural Network Based on Nested Residue Number System Hiroki Nakahara Ehime University, Japan Tsutomu Sasao Meiji

University, Japan Abstract—A pre-trained deep convolutional neural net-work (DCNN) is the feed-forward computation perspective which is widely used for the embedded vision systems In the DCNN, the 2D convolutional operation occupies more than 90% of …

Convolutional Neural Network based Side-Channel Attacks in …

Deep Learning based SCA 3 Our Method Main Idea Leakages in Spectrograms How to Use Convolutional Neural Networks (CNN) Exploit Leakages 4 Experiments Setup of Spectrogram Parameters Comparison of Attack Results 5 Conclusion Yang, Li, Ming, Zhou (IIE) CNN based SCA in Time-Frequency RepresentationsNovember 12, CARDIS 2018 10 / 39

1 Deep Convolutional Neural Network for Inverse Problems …

1 Deep Convolutional Neural Network for Inverse Problems in Imaging Kyong Hwan Jin, Michael T McCann, Member, IEEE, Emmanuel Froustey, Michael Unser, Fellow, IEEE Abstract In this paper, we propose a novel deep convolutional neural network (CNN)-based algorithm for solving ill-posed inverse problems Regularized iterative algorithms have

TopologyNet: Topology based deep convolutional and multi …

RESEARCH ARTICLE TopologyNet: Topology based deep convolutional and multi-task neural networks for biomolecular property predictions Zixuan Cang1, Guo-Wei Wei1,2,3* 1 Department of Mathematics, Michigan State University, East Lansing, MI 48824, USA, 2 Department of Biochemistry and Molecular Biology, Michigan State University, East Lansing, MI 48824, USA, 3 Department

Deep Convolutional Neural Networks for Image …

their predecessors up to recent state-of-the-art deep learning systems Alongtheway,weanalyze(1)theirearlysuccesses,(2)theirroleinthe deep learning renaissance, (3) selected symbolic works that have con-

Palmprint Recognition Based on Deep Convolutional Neural …

We propose a palmprint recognition algorithm based on a deep convolutional neural network (CNN) that uses the ability of the network to automatically extract palmprint convolution features and learns the characteristics of palmprint from large amounts of data Meanwhile, text recognition can be performed directly on the master map of palmprints

Robust Visual Tracking With Deep Convolutional Neural …

Robust Visual Tracking with Deep Convolutional Neural Network based Object Proposals on PETS Gao Zhu1 Fatih Porikli1,2,3 Hongdong Li1,3 Australian National University1, NICTA2 ARC Centre of Excellence for Robotic Vision3 {gaozhu,fatihporikli,hongdongli}@anueduau∗

DeepSense: A GPU-based deep convolutional neural network …

ious deep learning algorithms such as deep neural network (DNN) or convolutional neural network (CNN) are getting huge attention, as they are known to achieve higher inference accuracy for various vision-based applications [4, 9, 8] Deep learning algorithms, however, incur heavy computational overhead and power consumption when executing

Deep Convolutional Neural Network Based Regression …

Deep Convolutional Neural Network Based Regression Approach for Estimation of Remaining Useful Life Giduthuri Sateesh Babu(B), Peilin Zhao, and Xiao-Li Li Institute for Infocomm Research, A*STAR, Singapore, Singapore

Speech Emotion Recognition Using Deep Convolutional Neural …

Speech Emotion Recognition Using Deep Convolutional Neural Network and Discriminant Temporal Pyramid Matching Shiqing Zhang , Shiliang Zhang, Member, IEEE, Tiejun Huang, Senior Member, IEEE, and Wen Gao, Fellow, IEEE Abstract—Speech emotion recognition is challenging

because of the affective gap between the subjective emotions and low-level

A Deep Convolutional Neural Network Model to Classify …

1 A Deep Convolutional Neural Network Model to Classify Heartbeats U Rajendra Acharyaa,b,c,*, Shu Lih Oha, Yuki Hagiwaraa, Jen Hong Tana, Muhammad Adama, Arkadiusz Gertychd, Tan Ru Sane,f a

Image Fusion through Deep Convolutional Neural Network and …

image data This paper presents the deep convolutional neural network based image fusion using Laplacian pyramid method Firstly the paper concentrates on the existing image fusion techniques and related work Secondly on convolutional neural networks, deep learning and their features Thirdly it presented the similarities among Convolutional

DEEP NEURAL NETWORK-BASED SPEAKER EMBEDDINGS FOR …

DEEP NEURAL NETWORK-BASED SPEAKER EMBEDDINGS FOR END-TO-END SPEAKER VERIFICATION David Snyder , Pegah Ghahremani, Daniel Povey, Daniel Garcia-Romero, Yishay Carmiel, Sanjeev Khudanpur Center for Language and Speech Processing & Human Language Technology Center of Excellence The Johns Hopkins University, Baltimore, MD 21218, USA

A Deep Convolutional Neural Models for Picture Quality …

data, and on recent CNN-based picture quality prediction models that deliver excellent results on a large real-world picture quality database Index Terms Convolutional neural network, deep learning, perceptual picture quality, image quality assessment, no-reference image quality assessment I INTRODUCTION