main software

caffe

インストールガイド

http://caffe.berkeleyvision.org/installation.html

オープンソース

Pylearn2

インストールガイド

<http://deeplearning.net/software/pylearn2/>

Theanoを使用

Pytonライブラリのラッパー

オープンソース

Theano

インストールガイド

<http://deeplearning.net/software/theano/install.html#install>

Pythonライブラリ

オープンソース

Torch

Cuda-convnet

Deeplearning4j

データセット

データセット一覧

<http://www.cs.utexas.edu/~grauman/courses/spring2008/datasets.htm>

image classification

Very\_deep convolutional networks for large-scale image recognition

<http://arxiv.org/pdf/1409.1556>

PCANet: A simple deep learning baseline for image classification

<http://arxiv.org/pdf/1404.3606>

Semantic image segmentation with deep convolutional nets and fully connected crfs

<http://arxiv.org/pdf/1412.7062>

Evaluation of output embeddings for fine-grained image classification

<http://www.cvfoundation.org/openaccess/content_cvpr_2015/papers/Akata_Evaluation_of_Output_2015_CVPR_paper.pdf>

The treasure beneath convolutional layer; Cross-convolutional-layer pooling for image classification

<http://www.cvfoundation.org/openaccess/content_cvpr_2015/papers/Liu_The_Treasure_Beneath_2015_CVPR_paper.pdf>

Image recognition

Very deep convolutional networks for large-scale image recognition

https://arxiv.org/pdf/1409.1556.pdf

Deep residual learning for image recognition

https://arxiv.org/pdf/1512.03385.pdf

Caffe: Convolutional architecture for fast feature embedding

https://arxiv.org/pdf/1408.5093.pdf

Image segmentation

Semantic image segmentation with deep convolutional nets and fully connected crfs

https://arxiv.org/pdf/1412.7062.pdf

U-net: Convolutional networks for biomedical image segmentation

https://arxiv.org/pdf/1505.04597.pdf

Learning rich features from RGB-D images for object detection and segmentation

https://arxiv.org/pdf/1407.5736.pdf

ディープラーニングと画像認識

www.orsj.or.jp/archive2/or60-4/or60\_4\_198.pdf

Deep learningで画像認識① | LP-tech

lp-tech.net/archives/3301

Caffe: Convolutional Architecture for Fast Feature Embedding

https://arxiv.org/pdf/1408.5093.pdf

A Practical Introduction to Deep Learning with Caffe and Python

http://adilmoujahid.com/posts/2016/06/introduction-deep-learning-python-caffe/

ディープラーニング (技術解説)

http://ci.nii.ac.jp/naid/110009844043/

葉月ちゃんでもできる Deep Learning

http://files.sig2d.org/sig2d14.pdf#page=5

Deep Learning

http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.650.4684&rep=rep1&type=pdf

Deep learning tutorial

http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.366.4088&rep=rep1&type=pdf

Deep learning

http://www.nature.com/nature/journal/v521/n7553/abs/nature14539.html

Journal of Machine Learning Research

http://www.jmlr.org/

単語集

Image classification

Image recognition

深層学習

畳みこみ

回帰問題

Image segmentation

ソフトマックス関数