Accepted Manuscript

Unsupervised Image Segmentation via Stacked Denoising Auto-encoder and Hierarchical Patch Indexing

Jun Yu , Di Huang , Zhongliang Wei

PII: S0165-1684(17)30255-4
DOI: 10.1016/j.sigpro.2017.07.009
Reference: SIGPRO 6538

To appear in: *Signal Processing*

Received date: 14 April 2017
Revised date: 7 July 2017
Accepted date: 11 July 2017

Please cite this article as: Jun Yu , Di Huang , Zhongliang Wei , Unsupervised Image Segmentation via Stacked Denoising Auto-encoder and Hierarchical Patch Indexing, *Signal Processing* (2017), doi: 10.1016/j.sigpro.2017.07.009

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

Highlights

- This work proposes a method of image segmentation based on auto-encoders and hierarchical clustering algorithm.
- They divide sample images into non-overlapped patches and extract deep-level feature representations from the patches using Stacked Denoising Auto-encoder.
- They perform unsupervised and hierarchical K-means clustering on these feature representations and build an indexing tree structure.

ACCEPTED MANUSCRIPT

*Corresponding author.
Email address: yujun@hdu.edu.cn

Download English Version:

https://daneshyari.com/en/article/4977441

Download Persian Version:

https://daneshyari.com/article/4977441

Daneshyari.com