

Accepted Manuscript

An Optimized Convolutional Neural Network with Bottleneck and Spatial Pyramid Pooling Layers for Classification of Foods

Elnaz Jahani Heravi, Hamed Habib Aghdam, Domenec Puig

PII: S0167-8655(17)30445-2
DOI: [10.1016/j.patrec.2017.12.007](https://doi.org/10.1016/j.patrec.2017.12.007)
Reference: PATREC 7023



To appear in: *Pattern Recognition Letters*

Received date: 7 February 2017
Revised date: 5 October 2017
Accepted date: 5 December 2017

Please cite this article as: Elnaz Jahani Heravi, Hamed Habib Aghdam, Domenec Puig, An Optimized Convolutional Neural Network with Bottleneck and Spatial Pyramid Pooling Layers for Classification of Foods, *Pattern Recognition Letters* (2017), doi: [10.1016/j.patrec.2017.12.007](https://doi.org/10.1016/j.patrec.2017.12.007)

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.

Highlights

- Proposing an optimized ConvNet with bottleneck and Spatial Pyramid Pooling layers.
- Utilizing multi level pooling before the fully connected layer.
- The proposed network has 99.14
- Achieving an accuracy comparable with state of the art ConvNets.

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/6940506>

Download Persian Version:

<https://daneshyari.com/article/6940506>

[Daneshyari.com](https://daneshyari.com)