

Accepted Manuscript

Binarization of Degraded Document Images based on Hierarchical Deep Supervised Network

Quang Nhat Vo , Soo Hyung Kim , Hyung Jeong Yang , Guesang Lee

PII: S0031-3203(17)30339-4
DOI: [10.1016/j.patcog.2017.08.025](https://doi.org/10.1016/j.patcog.2017.08.025)
Reference: PR 6261



To appear in: *Pattern Recognition*

Received date: 17 April 2017
Revised date: 17 August 2017
Accepted date: 23 August 2017

Please cite this article as: Quang Nhat Vo , Soo Hyung Kim , Hyung Jeong Yang , Guesang Lee , Binarization of Degraded Document Images based on Hierarchical Deep Supervised Network, *Pattern Recognition* (2017), doi: [10.1016/j.patcog.2017.08.025](https://doi.org/10.1016/j.patcog.2017.08.025)

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

- We propose a supervised binarization method based on the Deep Supervised Networks.
- The multi-scale Deep Supervised Networks for binarization has not been reported yet.
- A hierarchical architecture is designed to distinguish text from background noises.
- Different feature levels are dealt by the multi-scale architecture.
- The performance results are considerably better than state-of-the-art methods.

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/6939719>

Download Persian Version:

<https://daneshyari.com/article/6939719>

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