

CON-TEXT: TEXT DETECTION FOR
FINE- GRAINED OBJECT
CLASSIFICATION

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ABSTRACT

- Fine-grained object classification using recognized scene text in natural images. While the state-of-the-art relies on visual cues only, to combine textual and visual cues.
- Another novelty is the textual cue extraction. Unlike the state-of-the-art text detection methods, we focus more on the background instead of text regions
- Regions are detected, they are further processed by two methods to perform text recognition

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EXISTING SYSTEM

- The performance of these methods may deteriorate to distinguish categories of objects that only slightly differ in appearance, such tasks include fine-grained classification.
- Fine-grained classification is the problem of assigning images to sub-ordinate classes in which objects differ only in (subtle) details (e.g. flower). Although, visual cues (e.g. color, texture and shape) can be used to distinguish visually distinct objects.
- The discriminative power of these visual cues by exploiting part information or, implying geometrical constraints.



PROPOSED SYSTEM

- It is validated on four publicly available datasets: ICDAR03, ICDAR13, Con-Text and Flickr-logo.
- The state-of-the-art end-to-end character recognition by a large margin of 15% on ICDAR03.
- Textual cues are useful in addition to visual cues for fine-grained classification. We show that textual cues are also useful for logo retrieval.
- Adding textual cues outperforms visual- and textual-only in fine-grained classification (70.7% to 60.3%) and logo retrieval (57.4% to 54.8%)



HARDWARE REQUIREMENT

- Processor - Intel
- Speed - 1.1 Ghz
- RAM - 256 MB(min)
- Hard Disk - 20 GB
- Monitor - SVGA

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SOFTWARE REQUIREMENT

- Tool - MATLAB R2012
- Operating system - Windows Xp, 7

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REFERENCES

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