

Identifying the Geographic Location of an Image with a Multimodal Probability Density Function

Jamie Davies
jagd1g11@ecs.soton.ac.uk

Jonathon S. Hare
jsh2@ecs.soton.ac.uk

Sina Samangooei
ss@ecs.soton.ac.uk

John Preston
jlp1g11@ecs.soton.ac.uk

Neha Jain
nj1g12@ecs.soton.ac.uk

David P. Dupplaw
dpd@ecs.soton.ac.uk

Electronics and Computer Science, University of Southampton, United Kingdom

	Prior	Tags	CEDD	SIFT-LSH	Geonames
Run 1	✓	✓	✓	✓	
Run 2	✓		✓	✓	
Run 3	✓	✓			
Run 4	✓	✓		✓	
Run 5	✓	✓	✓	✓	✓

Table 1: The feature configuration for the run submissions.

ABSTRACT

The geotagging of a photos location provides data that could be useful in a wide spectrum of applications. With the advance of digital cameras, and with many users exchanging their digital cameras for their GPS-enabled mobile phones, photographs annotated with geographical locations are becoming ever more present on photo-sharing websites such as Flickr. However there is still a wide majority of online content that is not geotagged, meaning that algorithms for efficient and accurate geographical estimation of an image are needed. We present a general model for using both textual metadata and visual features of photos to automatically place them on a world map. This forms the University of Southampton's entry for the MediaEval 2013 Placing task.

Keywords

Geotagging, Probability Density, Image Annotation

1. INTRODUCTION AND MOTIVATION

2. OVERALL METHODOLOGY

3. EXPERIMENTS

3.1 Run 1: Text+Visual, provided data

3.2 Run 2: Visual only, provided data

3.3 Run 3: Text only, provided data

3.4 Run 4: Text+Visual, bigger dataset

3.5 Run 5: Text+Visual, provided data with tag boosting

3.6 Results and Discussion

4. CONCLUSIONS AND FUTURE WORK

5. ACKNOWLEDGMENTS

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