



<http://icdar2017hba.litislabs.eu/>

ICDAR
2017
HBA

ICDAR 2017 Competition on Historical Book Analysis

Context

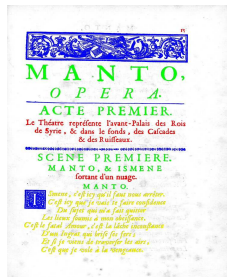
In conjunction with [ICDAR'17](#), the **HISTORICAL BOOK ANALYSIS COMPETITION (HBA)** is organized. The HBA competition will address a thriving topic of major interest of many researchers in different fields including **(historical) document image analysis, image processing, pattern recognition and classification**.

The HBA competition will provide a **large experimental corpus** and a **thorough evaluation protocol** to ensure a **consistent comparison of image processing methods** for historical document image analysis.

A new dataset which is called the **HBA dataset** will be released at this occasion. The HBA dataset is composed of **4436 real scanned ground-truthed one-page historical document images (2435 and 2001 printed and manuscript pages, respectively)** from **11 books (6 manuscripts and 5 printed books)** in different languages and scripts published between the 13th and 19th centuries.

Ground truth

The documents of the HBA dataset are **gray-scale or color images** which were digitized at **300 or 400 dpi** and saved in the **TIFF format** which provides a high resolution of digitized images. Each selected foreground pixel is marked by a color that symbolizes the corresponding content type. **The ground truth information is currently available at the pixel level.**



Challenges

Two nested challenges are proposed in the HBA competition.

1- The HBA competition will aim at evaluating how image analysis methods could **discriminate the textual content from the graphical one at pixel level**.

2- It will aim at assessing the capabilities of the participating methods to **separate the textual content according to different text fonts** (e.g. lowercase, uppercase, italic...) at **pixel level**.

Evaluation protocol

Evaluation protocol

The HBA dataset is divided into 2 sub-datasets, the **sample dataset** and the **evaluation dataset**.

The sample dataset will contain 2 books while the evaluation dataset will be composed of the 9 remaining books. Each dataset will be composed of a set of **training images** and a set of **test images**.

Several **per-pixel classification accuracy metrics**, including **precision, recall, classification accuracy** and **F-measure** will be performed.

Important dates

Date	Description
April 01, 2017	– Opening of the registration to competition – Publication of the sample dataset
June 01, 2017	– Closure of the registration to competition – Publication of the evaluation dataset – Beginning of the competition
July 31, 2017	– Deadline of the results submission – Deadline of the submission of the description of the participating methods
August 31, 2017	– Sending the competition results to the participants

The results of the HBA competition will be announced at [HIP'17](#) and [ICDAR'17](#).

How to participate

1- **Register** your interest through the [registration form](#) (before **01 June 2017**).

2- Specify clearly in which challenge you would like to participate (**challenge 1 only, challenge 2 only, both challenges 1 and 2**).

3- Download the **sample dataset** (available from **01 April 2017**).

4- Download the **evaluation dataset** (available from **01 June 2017**).

5- Submit the **description** and the **results** of your methods (before **31 August 2017**).

Organizers

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