

Session 6: Performance Evaluation and Interpretation

Chairs:

Gunther Drevin

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Introduction to the topic

Time to fight about evaluation protocols and ground-truths!

Context and needs:

- Lack of datasets and/or consensus for specific tasks.
- The creation of new datasets is time and effort consuming (and boring).
- Need of tools to make the process easier (GT edition, semi-automatic processes, ...)
- Interpretation of new sources of information to improve traditional document classification and music symbol detection pipelines.

Session outline (each paper: 10 min presentation)

- Paper 1: Groundtruthing (not only) Music Notation with MUSCIMarker: a Practical Overview. *Jan Hajic jr. and Pavel Pecina.*
- Paper 2: Pixel.js: Web-based Pixel Classification Correction Platform for Ground Truth Creation. *Zeyad Saleh, Ké Zhang, Jorge Calvo-Zaragoza, Gabriel Viglienconi and Ichiro Fujinaga*
- Paper 3: Document embedded images classification. *Matheus Viana, Quoc-Bao Nguyen, John Smith and Maria Gabrani*
- Paper 4: How to Exploit Music Notation Syntax for OMR. *Jan Hajic jr. and Pavel Pecina.*

Paper 1:

Groundtruthing (not only) Music Notation with MUSCIMarker: a Practical Overview. *Jan Hajic jr. and Pavel Pecina.*

Highlights:

- Open source tool for ground-truth creation for graphic recognition tasks
- Notation graph ground-truth
- Developed for OMR but flexible to other similar tasks
- Optimized to increase annotator productivity

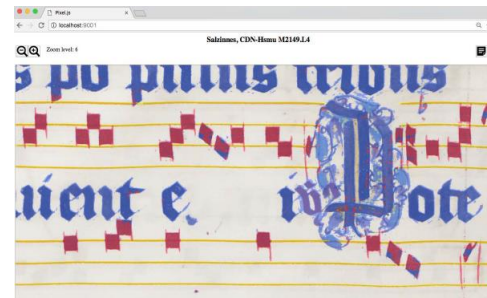


Paper 2:

Pixel.js: Web-based Pixel Classification Correction Platform for Ground Truth Creation. *Zeyad Saleh, Ké Zhang, Jorge Calvo-Zaragoza, Gabriel Viglienconi and Ichiro Fujinaga*

Highlights:

- Open source platform for ground-truth creation through pixel classification and correction
- Image edition tools, friendly interface
- Reduces time and resources needed for this kind of task

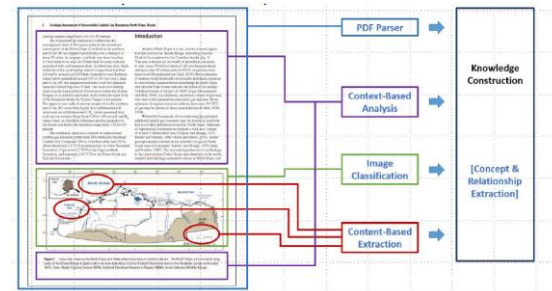


Paper 3:

Document embedded images classification. *Matheus Viana, Quoc-Bao Nguyen, John Smith and Maria Gabrani*

Highlights:

- Image interpretation for document understanding
- Large variety of types of images
- Text embedded in images as additional source of information for image classification and knowledge extraction.

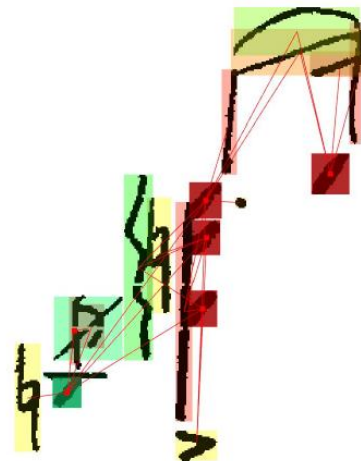


Paper 4:

How to Exploit Music Notation Syntax for OMR. *Jan Hajic jr. and Pavel Pecina.*

Highlights:

- Music syntax reduces uncertainty on symbol detection
- How to include music notation syntax within neural network approaches



Time to discuss!