Call for Master Thesis

Tagging ROI in images to Notation using Annotations

Region of Interest to Meanings Mapping.

ICONCLASS\(^1\) is the de facto global standard for the subject classification of cultural heritage content. It consists of alphanumeric “notations” which document the subjects in images in a language independent way. These notations have been applied to a large corpus of images.

In your thesis, an analysis will be done on the possibilities of linking the notations to specific regions of images\(^2\). Techniques from computer vision like object detection\(^3\) will be explored, and the option of doing human assisted tagging using serious gaming techniques considered.

You will gain experience in developing software for describing and tagging large scale image collections.

This thesis will be supervised by Prof. Dr. Harald Sack, Information Service Engineering at Institute AIFB, KIT, in collaboration with FIZ Karlsruhe.

[1] https://iconclass.org/

Which prerequisites should you have?
- Good programming skills in Python
- Knowledge of front-end libraries and web programming

It also helps if you have an interest or affinity with Art History or Cultural Heritage Contents

Contact person:

Etienne Posthumus  
Etienne.Posthumus@partners.fiz-karlsruhe.de

Prof. Dr. Harald Sack  
harald.sack@kit.edu