Call for Master Thesis

FIZ Karlsruhe
Leibniz Institute for Information Infrastructure

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 computervision 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/
[2] https://recogito.github.io/annotorious/
[3] https://en.wikipedia.org/wiki/Object_detection

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

aifb

**Institute of
Applied Informatics and
Formal Description Methods**
http://www.aifb.kit.edu/

KIT
Karlsruhe Institute of Technology