CSAM Detection with AIRA Platform

AIRA was developed as a spin-off of T3K's LEAP platform, with the focus of detecting 1st Generation CSAM:

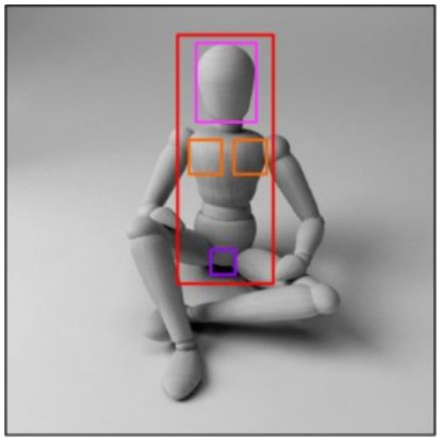
- Developed with and for ZAC (Central Offices and Point of Contact Cybercrime) at General State Attorney's Office Cologne
- Newly trained CSAM Classifier, continuously re-trainable on abstracted data, therefore no data protection and legality issues arise
- Additionally, Age & Gender estimation, Pattern Recognition (logos, tattoos, wallpaper, etc.), OCR, Watchlists
- image2image and text2image search functionalities
- To be used on big cases with quick scaling, but also to automatically close "schoolyard cases" with few pictures

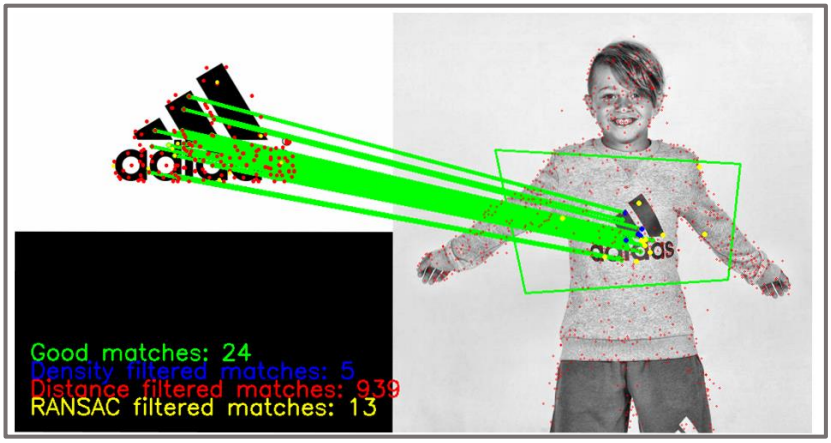
AIRA is a solution developed for easy automated detection of 1st Generation CSAM in data extracted from mobile devices, from forensic laptop images, or on other digital data storage devices.

AIRA utilizes the newest detection technology, with an AI Classifier that's trained on abstracted data, which makes it not only very easily re-trainable, but also a lot more precise than AI has been yet. The Classifier currently achieves hit rates of around 90% with extremely low false positive rates (0.5-3% - further reduction through cascaded setups). The addition of age and gender estimation based on children's visible faces, the ability to find specific tattoos, logos, bedsheets or other patterns in pictures and videos, plus the combination with a text2image and image2image search have never been seen in any tool available for detection of CSAM.

Implementation of AIRA can be an installation on a server on-premise, but is also available via a hybrid cloud setup with Microsoft Azure to allow easy platform and user management, licencing and billing.

All of these features and possibilities make AIRA the state of the art in fighting child sexual abuse material online!





Female Underage

#	Thumbnail	Erkannte Entität	Metadaten
1		*age: 2, ♀: 65 %*	*Dateigröße:* 47.2 kB *MD5 Hash:* 54468f5489e6449e1516d5fb5d769c35 *Dateipfad:* /root/Documents/LEAP_Data/Media/VOC-FULL/2012_002608.jpg *Dateiname:* 2012_002608.jpg *Größe:* 500x481