



FIERCE

Automatically extract and cluster faces
from multimedia.

FIERCE KEY FEATURES

Automatically extract faces from image, document, and video sources

Clusters and sorts faces into identities based on all facial poses including frontal, left/right angle, left/right profile

Identifies and reports all traces of persons of interest within the multimedia

Output images are cropped and aligned properly regardless of the pose, supporting forensic standards

Build compliant EBTS submissions for detected identities

Demographic extractions supported include sex, race and age range

Operate on standard workstations with no expensive cloud based resources or graphics processing units required

Integrating accepted standards as published by NIST OSAC, FISWG, and the IAI

Supported on multiple platforms including Windows, Linux, and Mac OS X



FIERCE is available exclusively from Lakota Software Solutions. Visit our website at lakotasoftware.com or contact our sales department at sales@lakotasoftware.com.



FORENSIC IMAGE EXTRACTION CLUSTERING AND EXPORT

Our proven biometrics software solutions are hard at work around the globe. Lakota Software powers biometric identification systems using industry-leading technology for processing and compliance. Lakota Software Solutions Inc is proud to announce the FIERCE application which is targeted for operational environments that routinely need to process a wide range of facial imagery into usable investigative products that focuses on ease of use, operational efficiency, forensic disciplines, and rapid turnaround.

AUTOMATES THE PROCESS OF EXPLOITING FACIAL IMAGES FROM MULTIMEDIA

With the wide adoption of cell phones and webcams, the availability of digital multimedia can be overwhelming. Often times, operational personnel, such as law enforcement officers, receive large collections of various types of multimedia that contain facial images including office documents, loose images with single/multiple faces, video, etc. Current approaches to exploiting this data require excessive manual labor using ad-hoc processes which do not result in searchable objects that can produce the most accurate results and support forensic examination disciplines. FIERCE was designed to solve this problem by automatically exploiting the data and selecting the best quality searchable faces based on forensic standards.

CREATES OUTPUT DATA THAT IS IMMEDIATELY USABLE IN BIOMETRIC SYSTEMS

FIERCE creates compliant EBTS files for each detected identity that can immediately be sent to large biometric systems such as DoD ABIS, FBI NGI, DHS HART in an attempt to identify unknown persons of interest. FIERCE utilizes Lakota's proven standards-based Ani product to ensure that a valid and compliant EBTS submission is automatically created for the target system.

FIND KNOWN INDIVIDUALS OR SUSPECTS WITHIN VIDEO DATA

In addition to photographs, FIERCE can also be used to process video data such as CCTV recording. FIERCE can automatically find a person of interest in the video data, providing an output of the precise times that they were seen in the video to speed up the video review process. Similarly FIERCE could be used to find certain family members in collections of old home videos.

EASILY SORT PHOTOGRAPHS BASED ON INDIVIDUALS IN THE PICTURE

The wide adoption of cell phones and digital photography has significantly increased the number of photos that people have taken over the years. In addition, photographers routinely take numerous pictures at large events such as kids sporting events, school dances, races (5k, 10k, etc.), etc. A lot of time and effort is spent organizing these photos based on the individuals in the picture before they can be released. Often this process can take weeks or months to properly sort the photos and release them. With FIERCE, this process can be automated, making the photos available significantly faster while reducing the amount of work required by a photographer.



This screenshot shows how an identity within a collection of images is isolated and displayed by pose for human examiner review in FIERCE.

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