ai REDACT™

The auto-redaction solution that combines OCR and expert system technology to achieve surgical redaction of privacy information buried in scanned documents.

TRUE Redaction Solution

Government agencies are struggling to comply with new legislation and mandates for redaction. Currently, 47 states have enacted legislation or mandates requiring privacy information to be protected in all public records. With the internet providing easy access to public documents and with the advent of web-crawling technology that can search through records undetected, redaction has become a necessity.

aiREDACT won the first county government, redaction RFP in the nation in 2004. From the beginning, it has set the bar for what is possible when it comes to accurately identifying privacy information for redaction. aiREDACT combines state-of-the-art OCR technologies with its own sophisticated recognition techniques. These combined technologies allow it to accurately analyze contextual clues and decipher digital data such as handwritten content and achieving a more surgical redaction of privacy data than other alternatives.

aiREDACT's classification feature assigns electronic "fingerprints" to images categorizing them by their uniqueness even learning to identify new patterns of redaction data as documents change and migrate over time.

How are you protecting privacy data in your public records?

Other redaction solutions claim state-of-the-art technology but simply tag what the client predicts might be future redaction elements. What if the client guesses wrong? aiREDACT eliminates this step with Iterative Redaction Processing (IRP). aiREDACT's IRP works with already encrypted abstraction files created during the initial OCR processing. Future redaction is executed against these pre-existing files, eliminating the need to rerun intensive OCR processes, to quickly locate new data elements and redact them.

aiREDACT's specialty is the redaction of large image repositories while ensuring that sensitive information is redacted on a going-forward basis. It provides a heads-down, internet data entry solution with bank-level security that is optimized for the high-speed display of images over a wide-area network (WAN) connection. As an expert system, it takes advantage of a rules-based, self-learning technology that analyzes the large result sets and, over time, adjusts the criteria to achieve even greater accuracy in pinpointing redaction targets from electronic documents including TIFFs, PDFs, Word Documents and email.

Protect your OCR investment with aiREDACT's Iterative Redaction Processing.

aiREDACT stores the coordinates of the personal information, generates a version of the document for public and internet viewing that "burns" the redacted data in an image copy while retaining the original version for authorized personnel. In addition, aiREDACT offers customers the ability to transform their redacted TIFF images into searchable PDF files.

aiREDACT is now in over 130 counties across the US and has a proven track record having redacted over 1.5 billion documents. aiREDACT applies a combination of image recognition techniques to identify such items as:

- Social Security numbers
- Bank accounts
- Credit/debit card numbers
- Minor/Vicitm names
- Green card numbers
- Dates of birth
- Medicare numbers
- E-mail addresses
- Credit union accounts
- Tax ID numbers
- Names and addresses
- Driver's license numbers

Another technical advantage that separates aiREDACT from other redaction solutions is how aiREDACT interprets and utilizes OCR confidence factors. OCR confidence factors are determined by multiple voting engines to confirm that a "1" is a "1" and not an "l" or an "I". In the case of a social security number, aiREDACT indicates that it has found a nine-digit number. Utilizing a proprietary learning engine, aiREDACT learns what numbers to ignore and reduces the chance of unwanted false redactions. These "confidence factors" are used to ensure that aiREDACT has not just found a nine-digit number but the correct nine-digit number.

aiREDACT uses Nuance OmniPage Capture which includes 12 individual recognition modules including OCR, ICR (Handprint) and most recently, 3D. These recognition capabilities are added to a 4-7 way voting engine to provide the latest in OCR technology. Mentis has supplemented this award-winning generic engine with a service-based workflow manager capable of taking full advantage of multi-threading in multiple-CPU systems and virtual environments.

Core to its method for efficiently processing high volumes of data is aiControlTower which has been engineered to distribute computer-intensive units of work across any number of servers. Its bank-level authentication and its built-in capability for sharing database resources with other applications distinguish it from other web-based offerings. A standard software API is provided with aiREDACT to support integration to existing software systems. Using an XML delivery format, Mentis can comply with any XML standard required for integration.

BENEFITS

aiREDACT is unique in its ability to:

- Categorize and classify document types using a combination of technologies resulting in more "surgical" redaction of privacy data.
- Use an Iterative Redaction Processing feature "IRP" to support new redactions without OCR processing or the guesswork of data tagging.
- Measure accuracy through a sophisticated learning engine.
- Enable redaction on-demand for FOIA requests.
- Generate a redacted version of a document for public viewing while retaining the original version for authorized personnel.
- Provide extensive reporting metrics for redactions including the number of redactions on each page and/ or by user.
- Track user productivity to efficiently manage staff resources.