

Handwriting Identification

The Problem

Forensic document examiners need to validate current practices and develop objective methods for analyzing questioned documents in cases.

Cases include: Oklahoma City Bombing, Jon Benet Ramsey, and the Unibomber.

The Approach

- Map handwriting on to array of pixels and partition text into connected segments
- Identify key features and develop algorithms to quantify the key features
- Use probabilistic methods to classify handwriting samples

The Accomplishments

- Developed objective mathematical method for handwriting classification
- Translated handwriting into quantifiable features for statistical analysis
- Provided ability to evaluate uncertainty/ confidence in classification results

