

# M.U.U.S.E

Automatic generation of processing log with user annotations

"Point and click" and "Point and draw" interfaces for entering observed areas of match

Extensible pattern library for non-ACU patterns

Generate high-quality customized reports for use in legal proceedings

## Military Uniform Uniqueness Statistical Evaluator

A key problem facing forensic investigators in achieving courtroom acceptability of evidence is providing statistical backing to what is largely perceived as qualitative testimony. This is particularly the case when matching camouflage garments to surveillance photographs – many believe that all uniforms look alike and accidental matches can easily occur.

The focus of this project was to leverage the unique characteristics of camouflage patterns and provide quantitative, statistical information on the match, thus enabling investigators (and attorneys) to gauge the strength of the matching evidence.

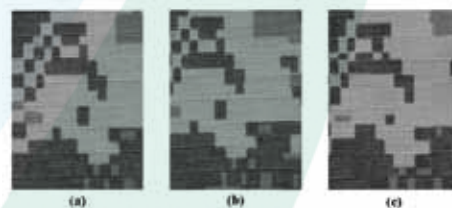
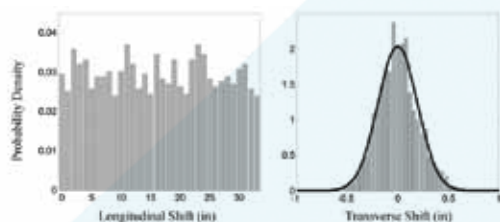
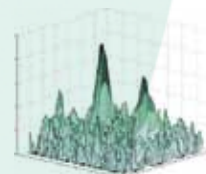


### Project Goals

- Study garment manufacturing process and understand key variation in uniforms
- Build mathematical model that comprehends process, computes match statistics
- Validate model via separate empirical study
- Incorporate model into software tool for use in investigations

### Results and Highlights

- Completely new technique and tool for the field of forensics
- Out-of-the-box functionality for investigators
  - Supports ACU, ABU, MCCUU
  - Other camouflage garments can be added



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