

Slap Fingerprint Segmentation

Proprietary Fingerprint Template

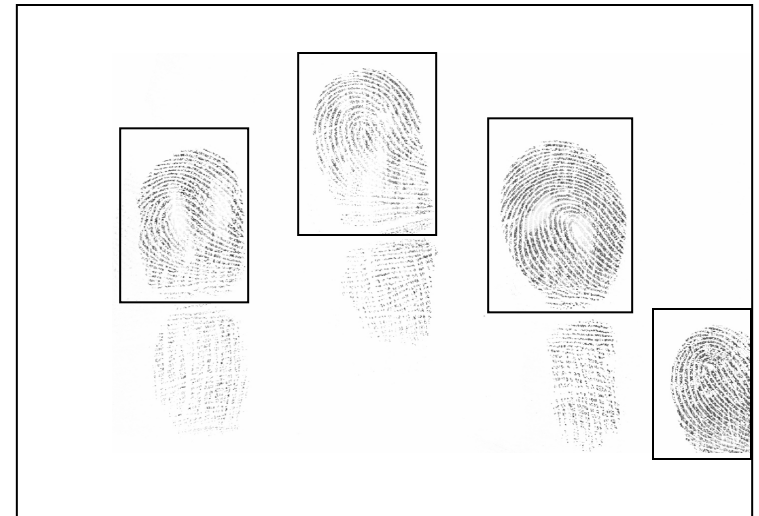
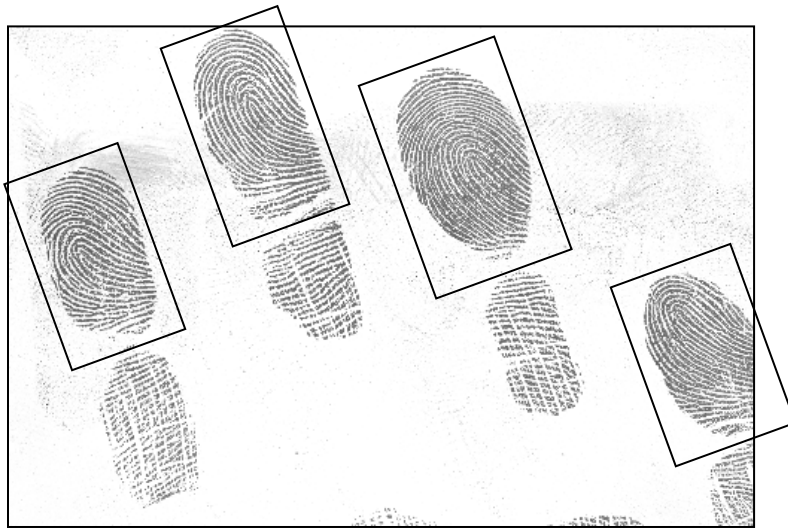
Craig Watson

IBPC 2010



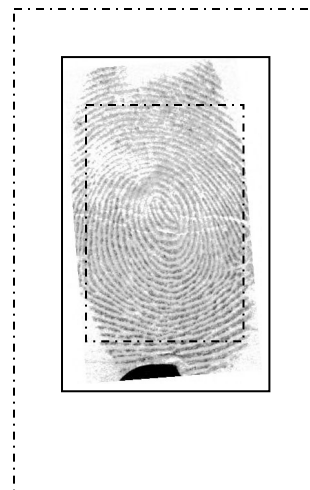
Slap Fingerprint Segmentation

fingerprint.nist.gov/slapsegII



SlapSeg04

**Ability to segment
“matchable” fingerprints**



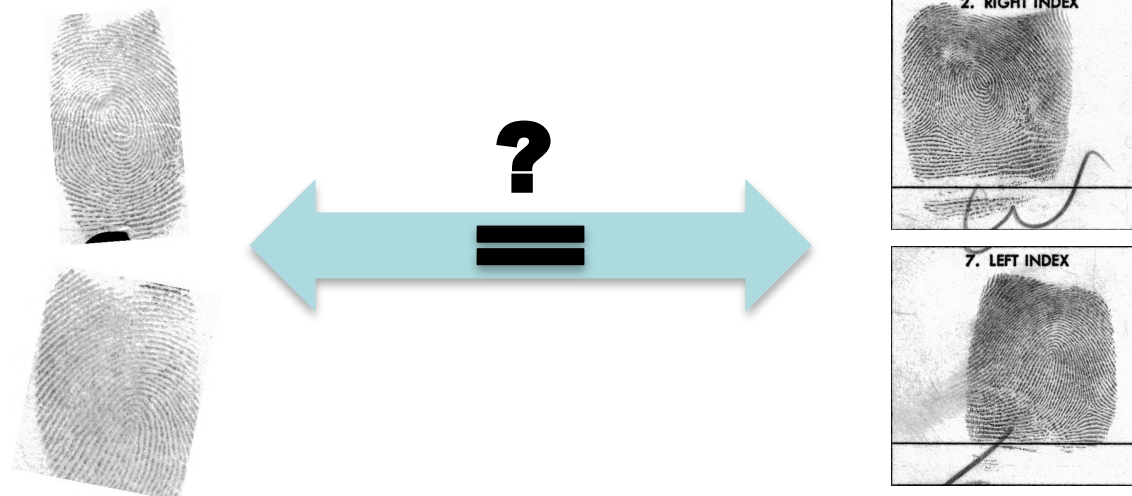
SlapSegII

**Ability to segment
fingerprints based on
hand-marked
segmentation boxes**

Segmentation and Matching

fingerprint.nist.gov/slapsegII

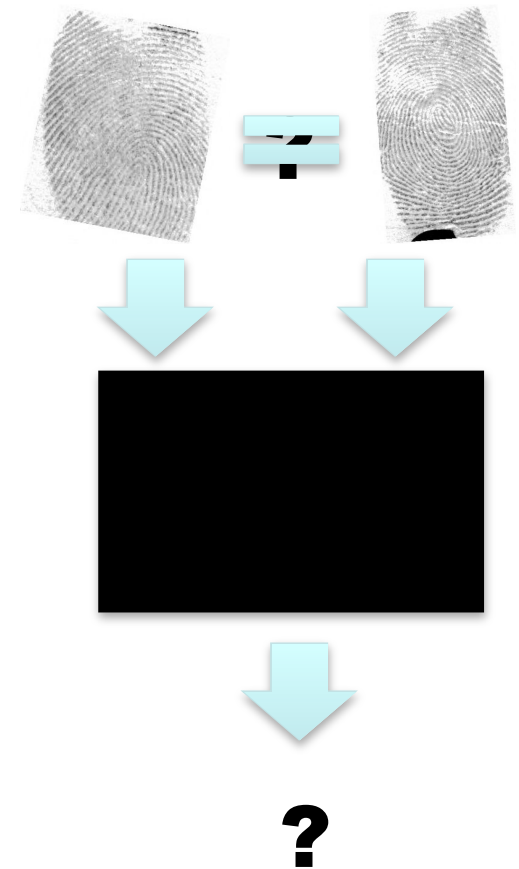
- **Are best segmentation algorithms in SlapsegII close to hand marked ground truth?**
- **Can a good matcher compensate for bad segmentation?**
- **Can multiple fingers can compensate for bad segmentation?**



Proprietary Fingerprint Templates

fingerprint.nist.gov/PFT

- **PFT – 1-to-1 matching technology evaluation**
 - **slap-slap**
 - **60K mates**
- **PFTII**
 - **120K mates,**
 - **slap-slap, slap-roll, roll-roll**
 - **Template sizes**
 - **Template extraction times**
 - **Matching times**



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<http://biometrics.nist.gov/evaluations>

