Computer-Assisted Consensus Among Fingermark Examiners

The Future of Forensic Examination?

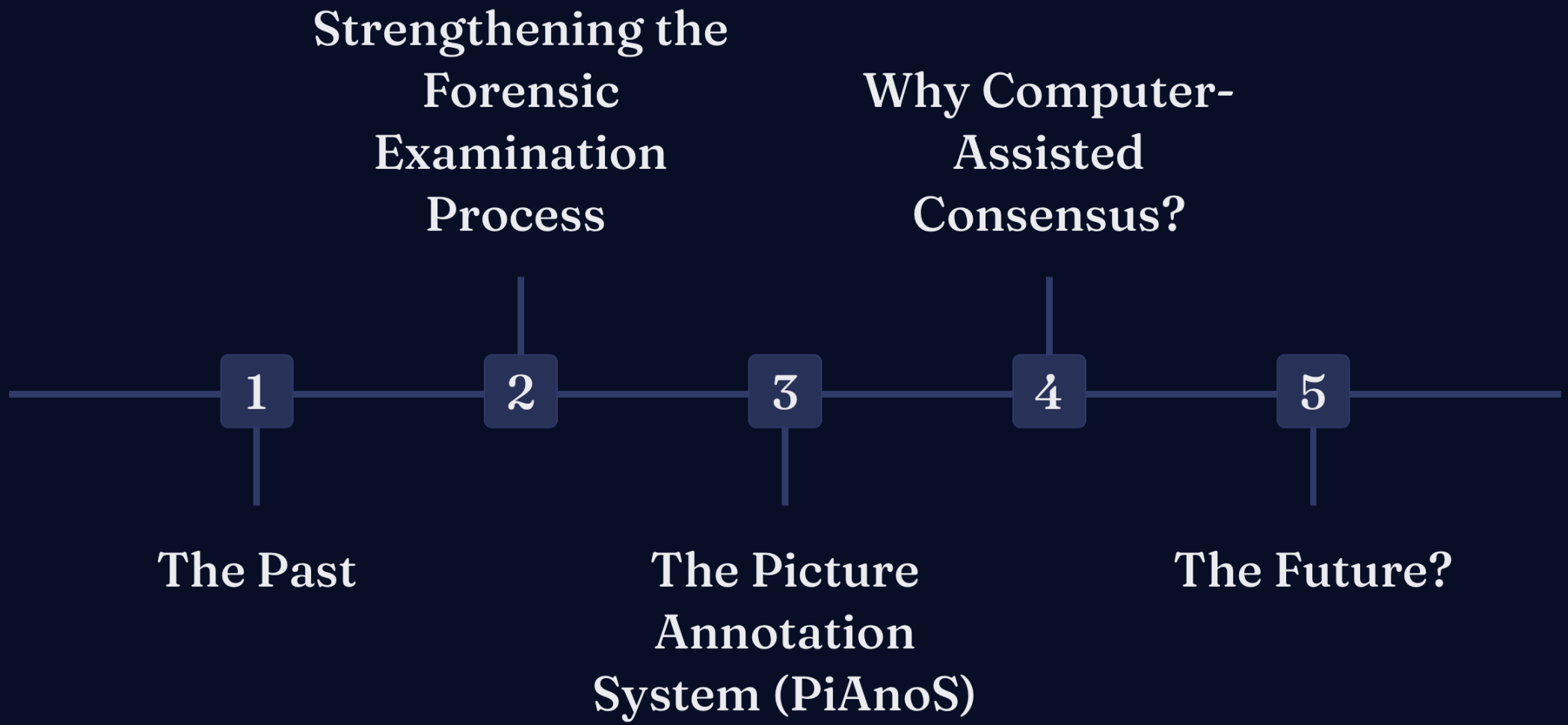
Technology along the chain

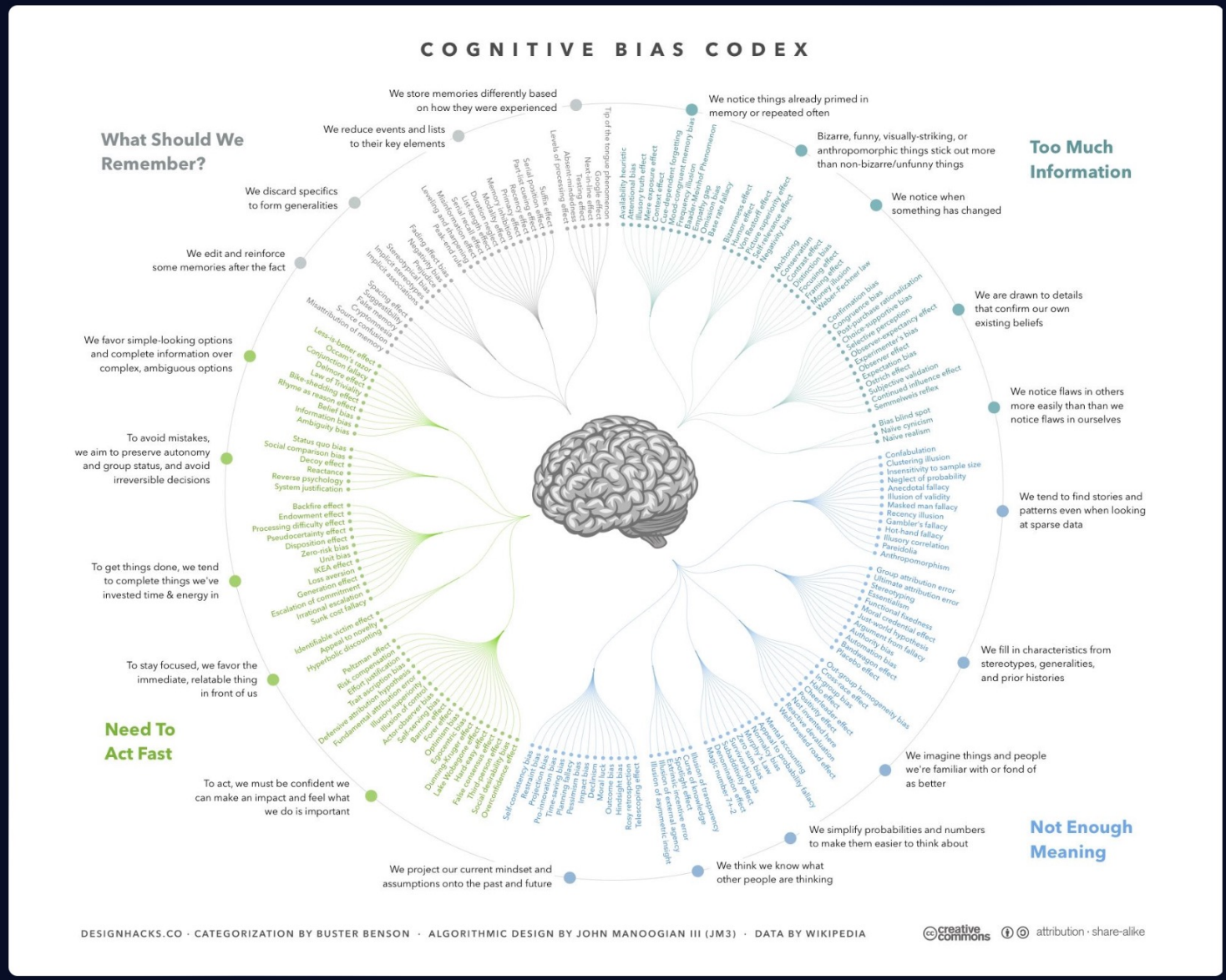
Crime Scene

'Back at the office'

Court

Presentation overview



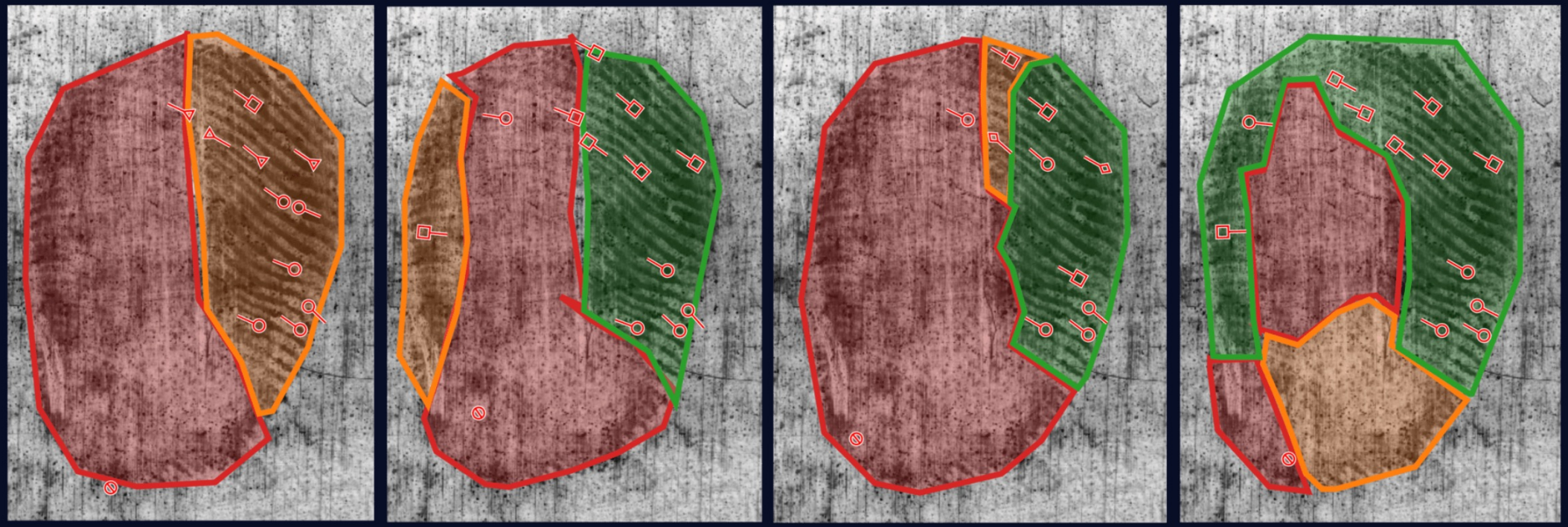


https://en.wikipedia.org/wiki/Cognitive_bias

What do you see?

You can't unsee!

Variability in Forensic Feature-Comparison Disciplines



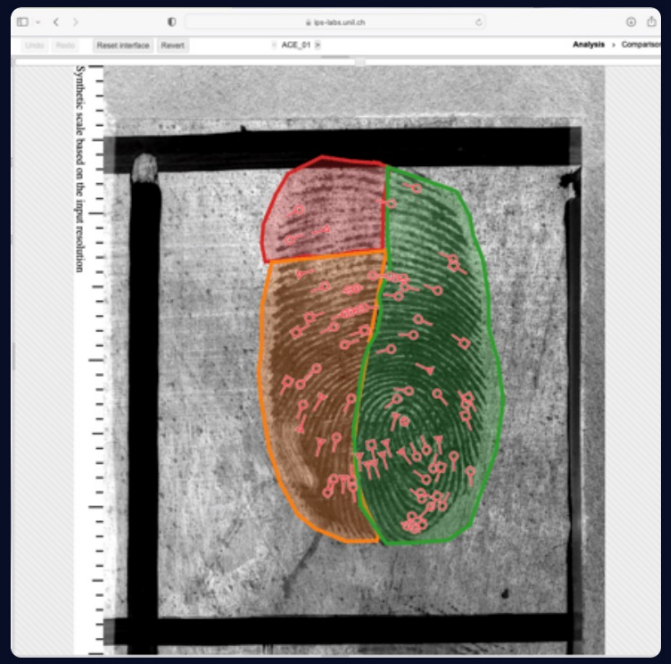
Reporting Standards

Suitable for comparison?

Suitable AFIS search?

Suitable to report?

Strengthening the forensic process

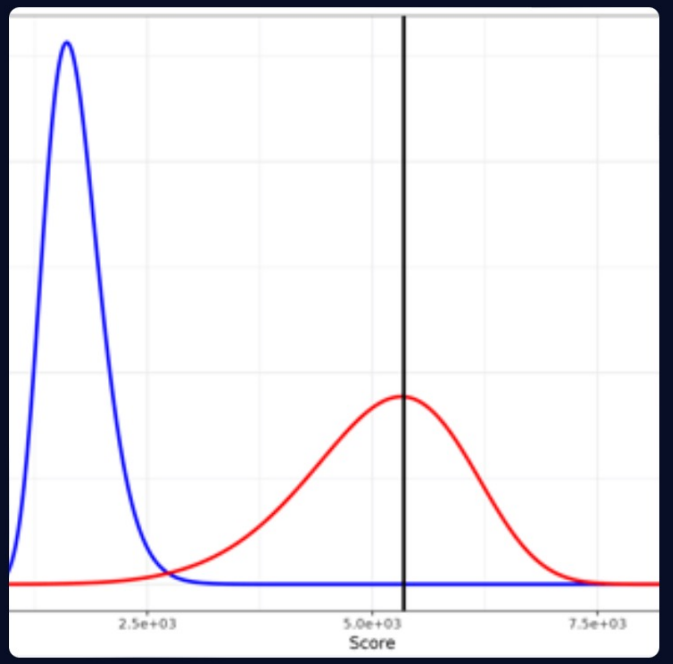


Provide the tool

Strengthen reasoning using recommneded best practice approaches

Provide the strategy

Strengthen the method by reducing variability .

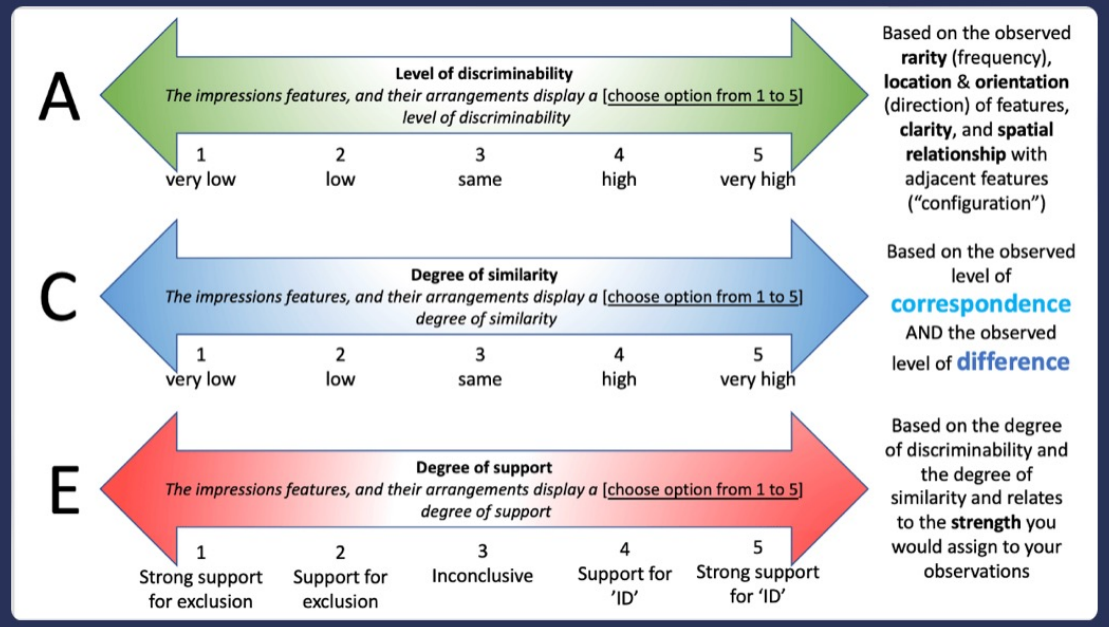


Provide the Court

Strenthen the opinion by pairing human-based approaches wiht numbers

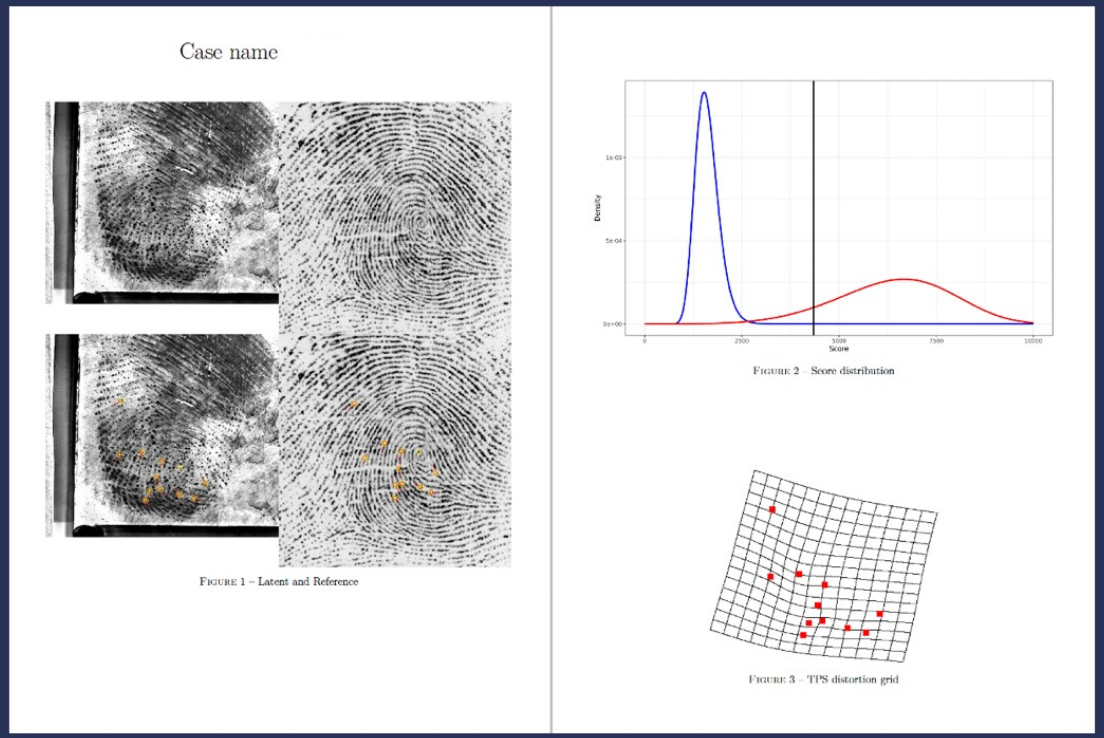
HUMAN-BASED

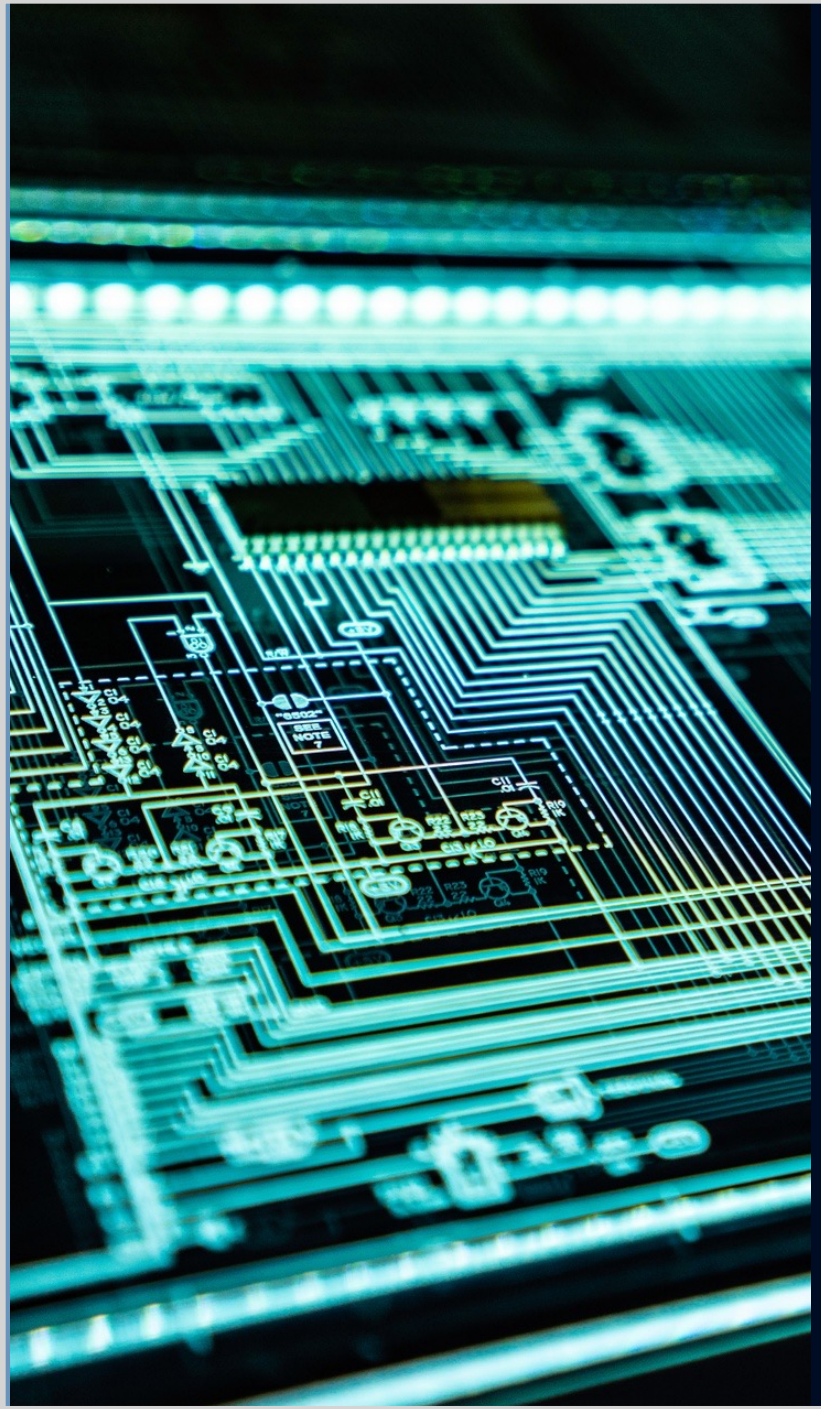
Part 1: Improving Judgments



COMPUTER-ASSISTED

Part 2: Informing Judgments

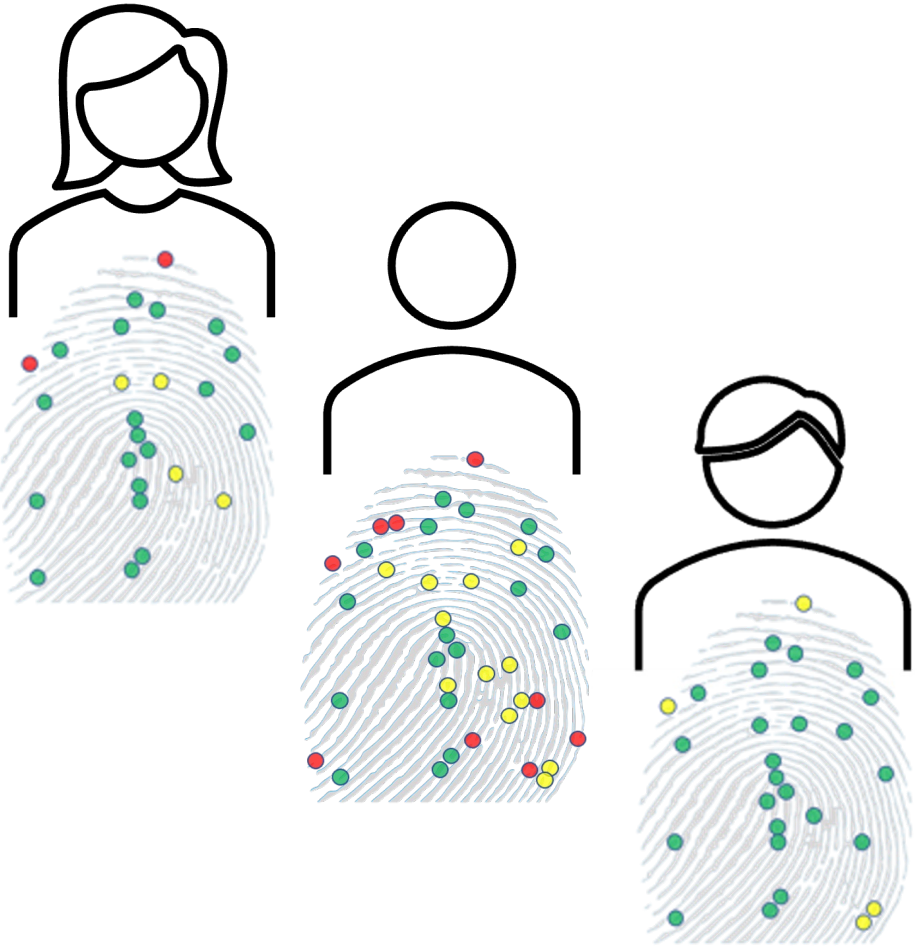


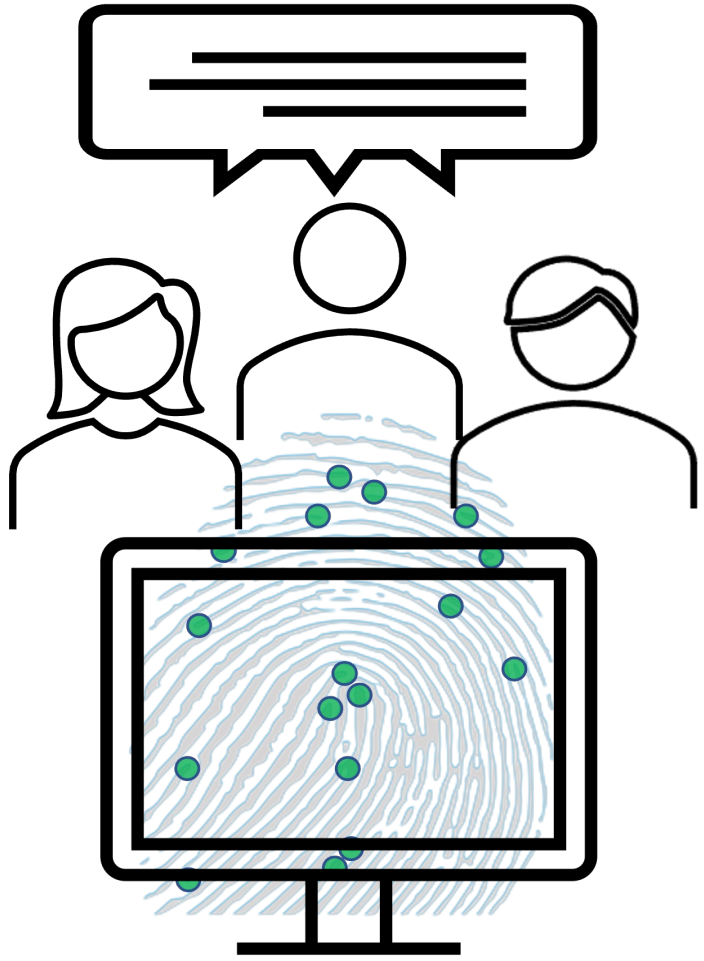


Why PiAnoS?

The Picture Annotation System

https://ips-labs.unil.ch/apps/pianos4-utwente/

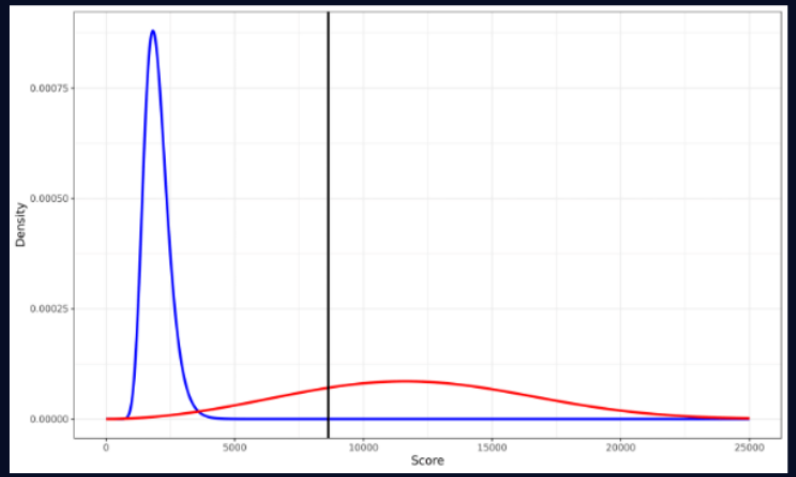


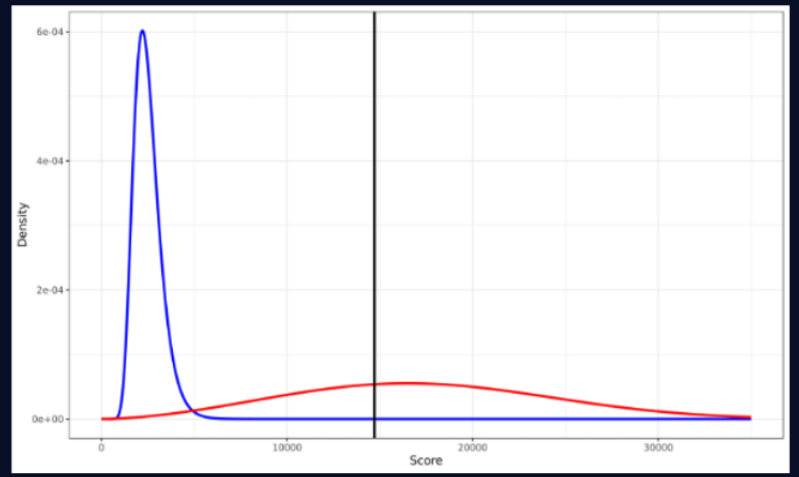


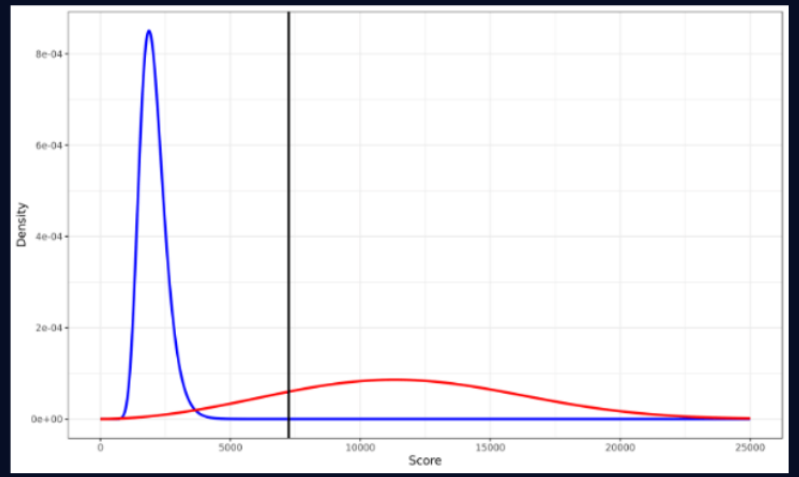
Why Computer-Assisted Consensus?

"Consensus features should be used to assign the LRs"

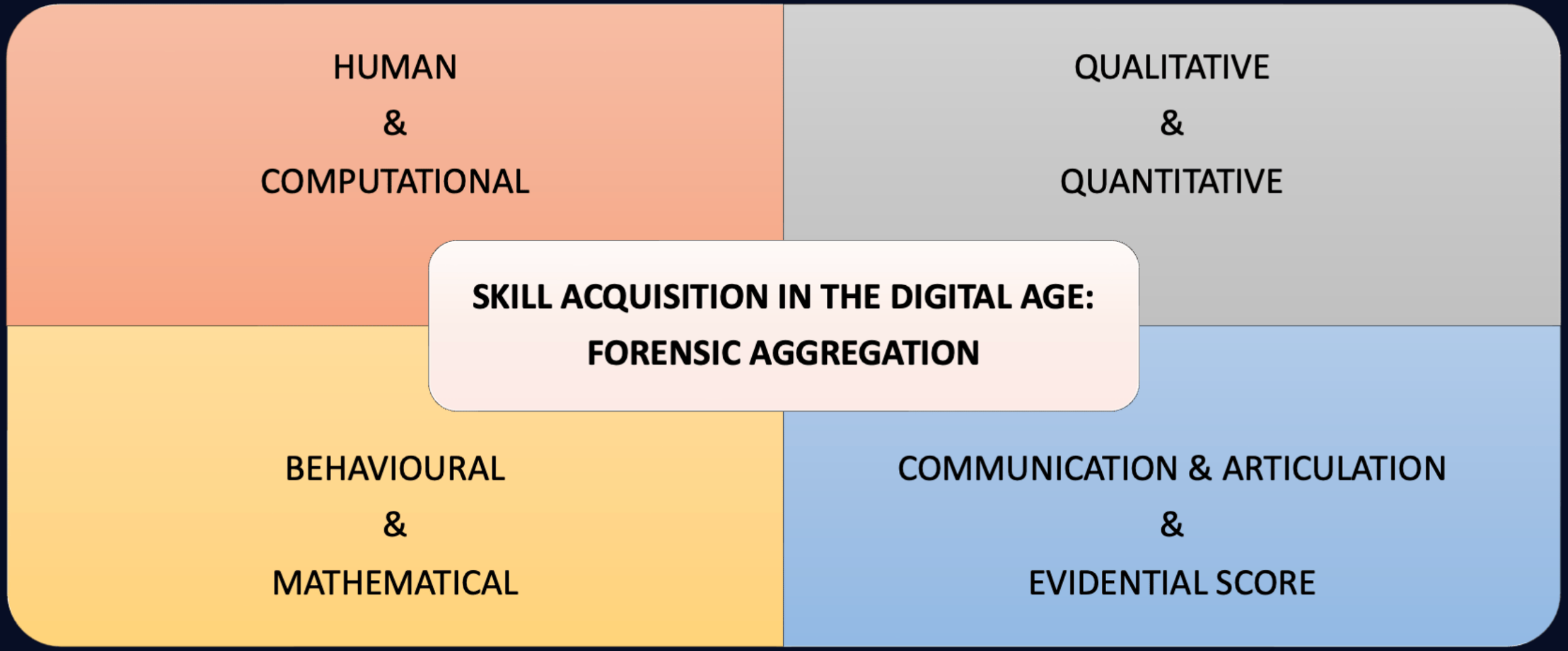
Glenn Langenburg, 2009







Next generation forensics...?



Take home message

Provide the tool

PiAnoS,

to strengthen examiner reasoning

Provide the strategy

Computer-Assisted Consensus,

to strengthen examiner opinions

Provide the courts

With LRs,

to strengthen the judicial decision

Thank you!

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