

Panel on the use of Interval Quantifications for the Value of Forensic Evidence

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May 2016

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In a 2009 NIJ project-

Following the work of James Curran and colleagues on credible/confidence Intervals for LR's in DNA, I had proposed to construct intervals for LR's we were using in source ID problems for QDE.

I became very concerned about this work when I could not answer these questions-

- ▶ Bayes Factor or Likelihood Ratio in Forensic Source ID.
- ▶ What do Intervals mean?
- ▶ How do we update our belief concerning an interval?
 - ▶ As statistical experts?
 - ▶ As a layperson?
- ▶ Do they cause any problems when presented as a surrogate for a "Forensic LR"?

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 - 1.1 "What additional information does an interval capture about the value of evidence?"
2. "How does a decision maker use an interval to make a decision in a logical and coherent manner?"
3. "Does presenting an interval quantification of the value of forensic evidence cause any harm?"

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1. Each panelist will have 10 minutes to introduce their points of view.
2. Then each panelist will have 5 minutes to respond to the other panelists.
3. I will then open the discussion to the floor.

Hal S. Stern

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- ▶ University of California, Irvine
- ▶ Center of Excellence to Improve Statistical Analysis of Forensic Evidence

Hari Iyer

- ▶ Mathematical Statistician
- ▶ Statistical Engineering Division, National Institute of Standards and Technology

Marjan Sjerps

- ▶ Professor of Forensic Statistics
- ▶ Netherlands Forensic Institute
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- ▶ PhD Candidate in Statistics
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