

Section 4.

Panel Descriptions



Speech Chain Analysis for Speaker Recognition Systems and Likelihood Ratios to Express Score Probabilities Under Competing Hypotheses *Continued*

and processing designs can be studied and analyzed to optimize the signal quality at each point and both understand the sensitivity of the comparisons in terms of error sources and work to reduce their impact and thus the total speaker recognition system error rates. This would be analogous to the image chain model for electro optical imaging systems. The application of speech chain analysis to quantify speaker recognition system error management will be discussed in this presentation. The presentation will also discuss modeling being proposed for Friction Ridge error predictions; followed by panelists presenting the pros and cons of Likelihood Ratios to express score probabilities under competing hypotheses.



Bloodstain Pattern Analysis Subcommittee

Bloodstain pattern analysis (BPA) is based on scientific analytical processes and critical reasoning. As with any field, the success of the practitioner is reliant on the quality of the data used for interpretation and the rigorous adherence to quality control mechanisms. This panel, comprised of experts in bloodstain pattern analysis practice, human factors/bias analysis, statistical evaluation and legal oversight, will address the challenges in determining error rates, sources of error, and current and suggested methods to mitigate errors in BPA. The panel will provide a brief status on the field of bloodstain pattern analysis and provide a multi-disciplinary discussion including potential sources of error in bloodstain pattern analysis.



Error Management and Forensic Document Examination

A panel of members from the OSAC Document Examination subcommittee will provide a summary of research regarding the determinations of error rates for handwriting examination, a discussion of the usefulness of establishing error rates for non-handwriting examinations, as well as reporting/testimony strategies used to mitigate misunderstandings regarding the findings made by document examiners.