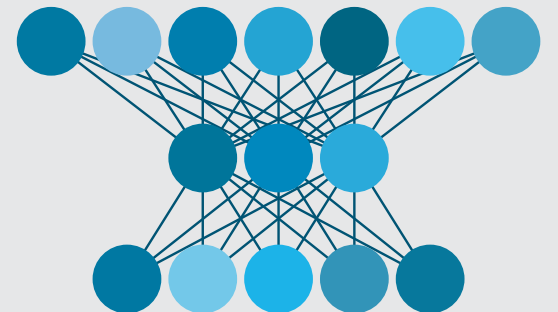
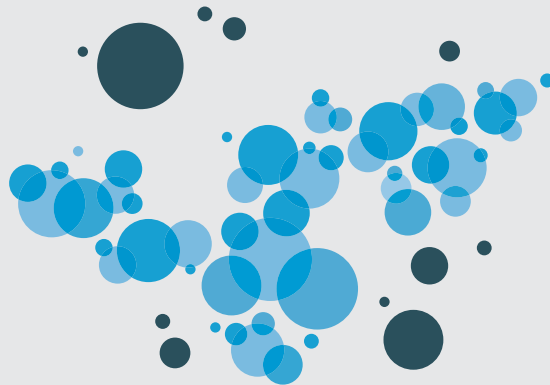


Symposium on calibration in forensic science

Forensic Data Science Laboratory
Aston Institute for Forensic Linguistics



Introduction

Roberto Puch-Solis

Forensic Data Science Laboratory
Aston Institute for Forensic Linguistics

Symposium on calibration in forensic science

- In the first decade of the 2000s, procedures and statistical models were developed for calibrating automatic-speaker-recognition systems.
- These procedures and statistical models were quickly adopted for human-supervised-automatic approaches to forensic voice comparison.

Symposium on calibration in forensic science

- There is growing interest in applying these procedures and statistical models in other branches of forensic science.
- Published examples include fingerprints, DNA, mRNA, glass fragments, and mobile telephone colocation.
- There are also published examples of calibrating human perception and judgement.

Symposium on calibration in forensic science

- Calibration is recommended/required by:
- The 2021 *Consensus on validation of forensic voice comparison*
- The Forensic Science Regulator of England & Wales's 2021 *Development of evaluative opinions*

Symposium on calibration in forensic science

- This symposium brings together some of the leading researchers in calibration of likelihood-ratio systems.
- They explain:
 - what calibration is and why it is important
 - algorithms used for calibration
 - metrics used for assessing degree of calibration



- Calibration in forensic science

Geoffrey Stewart Morrison



- Calibration in automatic speaker recognition

Luciana Ferrer



- Calibration in forensic voice comparison

Daniel Ramos



- Measuring calibration of likelihood-ratio systems

Peter Vergeer

Symposium on calibration in forensic science

- **Panel discussion:**
- The presenters will discuss aspects of calibration on which there is consensus, aspects on which there is disagreement, and aspects requiring additional research.
- They will also discuss how to encourage wider adoption of calibration in forensic practice.
- Moderator: *Rolf Ypma*

Symposium on calibration in forensic science

- **Questions:**
- Please post questions in the chat.
- Please only post clarification questions during the presentations.
- Hold more philosophical questions for the panel discussion.

Symposium on calibration in forensic science

- **Slides:**

- Slides are available at:

<https://www.aston.ac.uk/research/forensic-linguistics/events/past-events>



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- Measuring calibration of likelihood-ratio systems

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Panel discussion