

Speaker Comparison for Forensic and Investigative Applications II

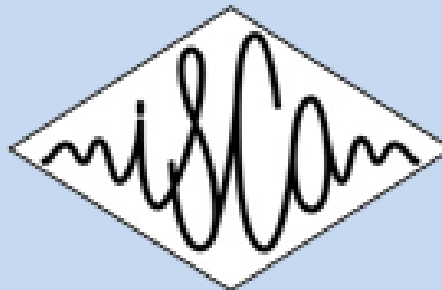
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Background

- In speaker comparison, speech samples are compared by humans and/or machines for use in
 - Investigations
 - Court to address questions that are of interest to the legal system
- Speaker comparison is a high-stakes application that can change people's lives
 - Demands the best that science has to offer
 - Methods, processes, and practices vary widely
 - Not necessarily for the better
 - Not generally appreciated and acted upon
- Methods, processes, and practices grounded in science are critical for the proper application (and *non*application) of speaker comparison to a variety of international investigative and forensic applications

Objectives

- Improve understanding of speaker comparison for investigative and forensic application
 - Describe what is currently being done
 - Critically analyze performance and lessons learned
- Improve communications between communities of researchers, legal scholars, and practitioners internationally
 - Directly address some central legal, policy, and societal questions
 - Allowing speaker comparisons in court
 - Requirements for examiners and expert witnesses
 - Requirements for validation of specific automatic and/or human-based methods) – all at the international level!
- Present and discuss current practices
 - How to move to adopting best practices
 - Method validation
 - Reduction of bias
 - Presentation of evidence

Distinguished Opinion Presenters

- *Dorothy Glancy*, Santa Clara University School of Law, USA
- *Kenneth Marr*, Federal Bureau of Investigation, USA
- *Jonas Lindh*, Voxalys AB & Inst of Neuro & Phys, U Gothenburg, Sweden
- *George Doddington*, Consultant, USA
- *John H.L. Hansen*, University of Texas at Dallas, USA
- *Ewald Enzinger*, Independent forensic consultant, USA
- *James Wayman*, San José State University, USA
- *Douglas Reynolds*, MIT Lincoln Laboratory, USA
- *Michael Coble*,* National Institute of Standards and Technology, USA
- *Christopher Cieri*, Linguistic Data Consortium, USA
- *Luis Buera*, Agnitio Voice ID, Spain
- *Alysha Jeans*, Federal Bureau of Investigation, USA
- *Mitchell McLaren*, SRI International, Menlo Park, CA, USA

Key:

- Topic 1: What is currently possible in forensic speaker comparison and recognition?
- Topic 2. Quantifying the weight of evidence in forensic speaker comparison.
- Topic 3. Discussion about background and development data and reference populations.

* Presented
by Reva
Schwartz