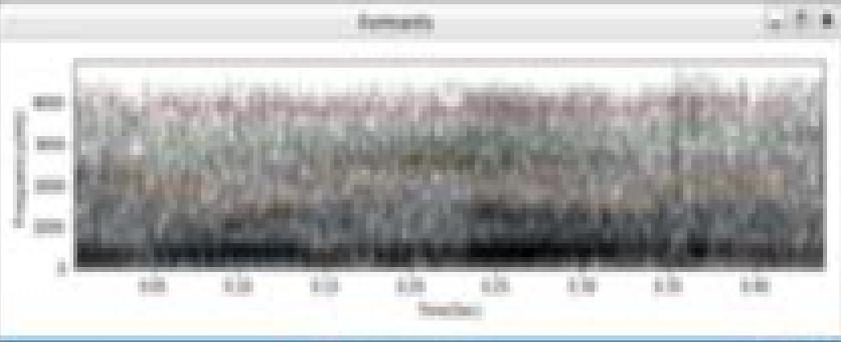
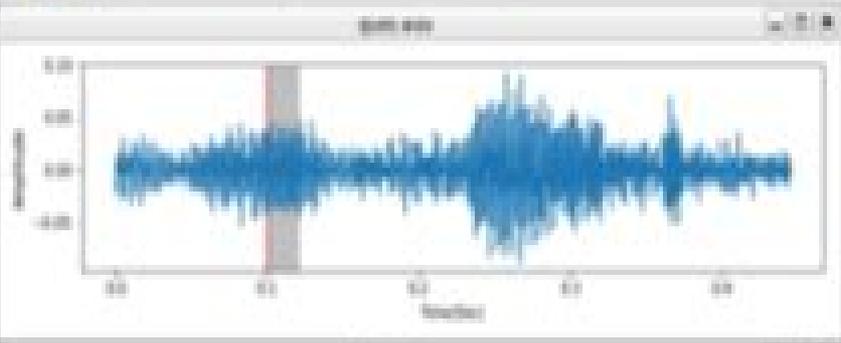
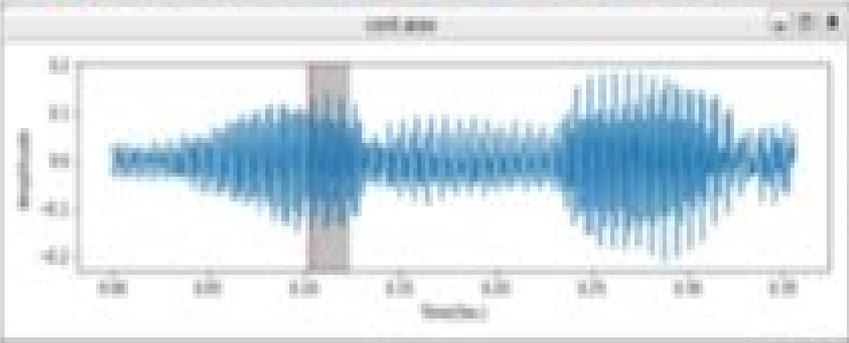




Project Name (in):



# Forensic Speaker Identification

**Mike Jess**



## **Forensic Speaker Identification:**

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Forensic Speaker Recognition Amy Neustein,Hemant A. Patil,2011-10-05 Forensic Speaker Recognition Law Enforcement and Counter Terrorism is an anthology of the research findings of 35 speaker recognition experts from around the world The volume provides a multidimensional view of the complex science involved in determining whether a suspect s voice truly matches forensic speech samples collected by law enforcement and counter terrorism agencies that are associated with the commission of a terrorist act or other crimes While addressing such topics as the challenges of forensic case work handling speech signal degradation analyzing features of speaker recognition to optimize voice verification system performance and designing voice applications that meet the practical needs of law enforcement and counter terrorism agencies this material all sounds a common theme how the rigors of forensic utility are demanding new levels of excellence in all aspects of speaker recognition The contributors are among the most eminent scientists in speech engineering and signal processing and their work represents such diverse countries as Switzerland Sweden Italy France Japan India and the United States Forensic Speaker Recognition is a useful book for forensic speech scientists speech signal processing experts speech system developers criminal prosecutors and counter terrorism intelligence officers and agents *Semi-Automatic Forensic Speaker Identification* ,2004

*Forensic Speaker Identification* Phil Rose,2002-07-01 A voice is much more than just a string of words Voices unlike fingerprints are inherently complex They signal a great deal of information in addition to the intended message the speakers sex for example or their emotional state or age Although evidence from DNA analysis grabs the headlines DNA can t talk It can t be recorded planning Forensic Speaker Identification Tony Brian Alderman,2005

*Semi-automatic Forensic Speaker Identification* Luis Felipe Cepeda,2007 Keywords Speaker Identification Forensics glottal pulse p **The Speaker Identification Ability of Blind and Sighted Listeners** Almut Braun,2016-08-12 Almut Braun carried out forensic phonetic speaker identification experiments voice lineups with 306 lay listeners Blind listeners significantly outperformed sighted listeners when the speech recordings were presented in studio quality For recordings in mobile phone quality or of whispering voices blind and sighted listeners achieved similar results The data can be used as reference material for real cases with blind earwitnesses Furthermore it is discussed whether blind individuals are

particularly suitable to work as forensic audio analysts for law enforcement agencies Speaker Identification for Forensic Applications Mark William Phythian,1998 Forensic Speaker Analysis and Identification by Computer Mehrdad Khodai-Joopari,2006 This thesis advances understanding of the forensic value of the automatic speech parameters by addressing the following question what is the potentiality of the speech cepstrum as a forensic acoustic parameter Despite many advances in automatic speech and speaker recognition robust and unconstrained progress in technical forensic speaker identification has been partly impeded by our incomplete understanding of the interaction and relation between forensic phonetics and the techniques employed in state of the art automatic speech and speaker recognition The posed question underlies the recurrent and longstanding issue of acoustic parameterisation in the area of forensic phonetics where 1 speaker identification often must be carried out under less than optimal conditions and 2 views differ on the usefulness and trustworthiness of the formant frequency measurements To this end a new formulation for the forensic evaluation of speech data was derived which is effectively a spectral likelihood ratio with enhanced sensitivity to the local peaks of the formant structure of the speech spectrum of vowel sounds while retaining the characteristics of the Bayesian framework This new hybrid formula was used together with a novel approach which is founded on a statistically based matched pairs technique to account for various levels of variation inherent in speech recordings thereby providing a spectrally meaningful measure of variations between two speech spectra and hence the true worth of speech samples as forensic evidence The experimental results are obtained based on a forensically realistic database of a relatively large population of 297 native speakers of Japanese In sum the research conducted in this thesis is a major step forward in advancing the forensic phonetic field which broadens the objective basis of the forensic speaker identification Beyond advancing knowledge in the field the semi data independent nature of the new formula ultimately has great implications in technical forensic speaker identification It also provides us with a valuable biometric tool with both academic and commercial potential in crime investigation in a field which is already suffering from the lack of adequate data **Forensic Voiceprint Analysis and Speaker Identification** Shelly St. Pierre,2006 **Study of Speaker Recognition** Viprav Gautam,Saurabh Sharma,2013 Speaker Recognition is the computing task of validating a user s claimed identity using characteristics extracted from their voices This technique is one of the most useful and popular biometric recognition techniques in the world especially related to areas in which security is a major concern It can be used for authentication surveillance forensic speaker recognition and a number of related activities It can be divided into Speaker Identification and Speaker Verification Speaker identification determines which registered speaker provides a given utterance from amongst a set of known speakers Speaker verification accepts or rejects the identity claim of a speaker is the speaker the person they say they are **A Summary of Forensic Phonetics and Methods of Speaker Identification, with an Application of the Auditory Approach** ,1998 **Speech Intelligibility and Speaker Recognition** Mones E. Hawley,1977 *Encyclopedia of Forensic Sciences* Jay A. Siegel,Pekka J. Saukko,Geoffrey C.

Knupfer,2000 Encyclopedia of Forensic Sciences is a comprehensive reference source of current knowledge made available in the field of forensic science Covers the core theories methods and techniques employed by forensic scientists and their application in forensic analysis

**Forensic Linguistics** ,2002 The international journal of speech language and the law

**Speaker Classification I** Christian Müller,2007-08-28 This volume and its companion volume LNAI 4441 constitute a state of the art survey in the field of speaker classification Together they address such intriguing issues as how speaker characteristics are manifested in voice and speaking behavior The nineteen contributions in this volume are organized into topical sections covering fundamentals characteristics applications methods and evaluation

**An Introduction to Forensic Phonetics and Forensic Linguistics** Adrian Leemann,Ria Perkins,Grace Sullivan Buker,Paul Foulkes,2024-12-17 This textbook provides a practical introduction to the fields of forensic phonetics and forensic linguistics Addressing how these fields are both distinct yet closely related the book demonstrates how experts from both fields can work together to investigate and deliver justice in complex legal situations With pedagogical features including real life case studies exercises and links to further reading topics covered include Profiling from spoken and written texts Disputed meaning and how meaning is made and evolves Interviewing techniques including working around those who might be considered linguistically vulnerable Author and speaker determination Audio enhancement and authentication of recordings Language analysis in the asylum procedure LAAP Accompanied by online audio and video resources as well as signposting readers to freely available software to aid their studies this book is the ideal springboard for students beginning work in forensic phonetics forensic speech science forensic linguistics and law and language

**Voice Recognition** Richard L. Klevans,Robert D. Rodman,Robert Rodman,1997 Here s a scientific look at computer generated speech verification and identification its underlying technology practical applications and future direction You get a solid background in voice recognition technology to help you make informed decisions on which voice recognition based software to use in your company or organization It is unique in its clear explanations of mathematical concepts as well as its full chapter presentation of the successful new Multi Granular Segregating System for accurate context free speech identification

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