

Voice
ID

24



Conference Programme

Marburg
28. - 30. August 2024

Voice ID 2024

Programme

Time Session Duration

Day 1: Wednesday 28th August

08.45-09.15 AM

30 min

Registration & Coffee

09.15-09.45 AM

30 min

Opening of Conference

Local Organisers (Scharinger/deJong)

President of Philipps University Marburg

(Prof. T. Nauss)

Institute Director (Prof. A. Lameli)

09.45- 11.45 AM

2 hrs

SESSION 1 - Forensic Phonetics
(Chair: Sophie Möller)

Kirsty McDougall

Voice distinctiveness: An investigation of the role of speakers' position in a population with respect to f0

Radek Skarnitzl

Acoustic and ASR analysis of voice impressions by two professional imitators

Anil Alexander

Deepfake voices in forensic speaker recognition: An existential threat or manageable challenge?

Georgina Brown

A focus on whole analysis processes for forensic voice comparison

David Grünert

Generating synthetic datasets for the validation and training of automatic speech analysis systems in the context of organized crime

11.45 AM - 12.45 PM

1 hr

LUNCH

12.45 - 2.15 PM

1 hr 30

POSTER SESSION 1

2.15 - 3.45 PM

1 hr 30

SESSION 2 - Voice Processing in Animals
(Chair: Jonas Gerards)

Attila Andics

Voice identity perception in dogs: Neural bases, capacities and sensitivities

Boglárka Morvai

ERP evidence for conspecific voice sensitivity in mammals

Margherita Giamundo

Encoding of voice identity by neurons in the macaque anterior Temporal Voice Area

Dorottya Szilvia Rácz

Fast periodic auditory stimulation EEG reveals recent-over-ancient tuning effects on voice identity processing in dogs and humans

3.45 - 4.15 PM

30 min

COFFEE BREAK

4.15-5.45 PM

1 hr 30

SESSION 3 - Voice Perception and Representation
(Chair: Volker Dellwo)

Jody Kreiman

Prototype theory and acoustic variability in voice perception

Romi Zäske

Memory for voices and individual differences

Claudia Roswadowitz

A data-driven exploration of the mental representational voice identity space

from 6.30 PM

FINGERFOOD & DRINKS

Voice ID 2024

Programme

Time Session Duration

Day 2: Thursday 29th August

9.00-9.20 AM

20 min

COFFEE

9.20-10.50 AM

1 hr 30

SESSION 4 - Artificial Voice Identity (Chair: Jasemina Tzallas)

Carolyn McGettigan

Investigating effects of self-relevance and familiarity on first impressions of voice clones

Victor Rosi

Echoes of self: Exploring the acceptability of voice identity cloning

Christine Nussbaum

Naturalness of voices – From human to artificial agents

Pavo Orepic

Voices and robots: From self-voice misperceptions to robotically-induced hallucinations

11.00 AM - 12.30 PM

1 hr 30

POSTER SESSION 2

12.30 - 1.30 PM

1 hr

LUNCH

1.30 - 3.10 PM

1 hr 40

SESSION 5 - Talker Identification (Chair: Alexia Despina Leonidou)

Susannah Levi

Which individual differences measures predict perception of talker-voice information?

Suyuan Liu

Comparing voice similarity through acoustics, human perception and deep neural network (DNN) speaker verification systems

Volker Dellwo

Do high variability speaking styles per se enhance voice recognition?

Gasser Elbanna

Investigating speaker identity representations in speech-based neural network models

3.10 - 3.40 PM

30 min

COFFEE BREAK

3.40 - 4.50 PM

1 hr 10

SESSION 6 - Neurobiology of Voice (Chair: Mathias Scharinger)

Nadine Lavan

The time course of first impression formation in the brain

Charly Lamothe

Reconstructing voice from noninvasive auditory cortex recordings

Paula Rinke

Early neural interactions of speech and speaker information

4.50-5.00 PM

10 min

The Voice Communication Sciences Project (Pascal Belin)

5.00-6.00 PM

1hr

Guided Tour "DSA - Georg Wenker Archive"

from 7.00 PM

CUBAN DINNER IN HAVANA

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Programme

Time

Session Duration

Day 3: Friday 30th August

9.00-9.30 AM

30 min

COFFEE

9.30-10.50 AM

1 hr 20

SESSION 7 - Voice and Speech and Music
(Chair: Toke Hoffmeister)

Emma Holmes

Sahil Luthra

Camila Bruder

How does voice familiarity affect speech intelligibility?

Neural and computational mechanisms underlying talker-phonetic interactions

Individual differences in singing voice perception

10.50-11.20 AM

30 min

COFFEE BREAK

11.20-12.30 PM

1 hr 10

SESSION 8 - Challenges in
Talker Identification
(Chair: Paula Rinke)

Laura Rachman

Tyler Perrachione

Stefan Schweinberger

Voice cue sensitivity and speech-on-speech perception in children with hearing aids

Talker identification under adversity: Effects of noise, aging, and hearing loss

Identifying individual profiles of voice perception abilities in cochlear implant users and their relationship to quality of life (QoL)

12.30 - 1.00 PM

30 min

Final Group Discussion

1.00 -1.10 PM

10 min

Closing Comments

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POSTER SESSIONS

Time Session Duration Day 1: Wednesday 28th August

12.45-2.15 PM

1 hr 30

POSTER SESSION 1

Bradshaw, Leah; Dellwo, Volker

Sacrificing identity for intelligibility: Clear speech renders speakers less recognisable

Chaminade, Thierry; Di Pasquasio, Camilla; Pineaud, Arthur; Belin, Pascal

Temporal Voices Areas response to synthetic voices in natural conversation
support norm-based coding of vocal identity information

Devlin, Thomas

Diachronic change in a politician's accent: A case study of Jonathan Reynolds MP

Fröhlich, Andrea; Ramon, Meike; French, Peter; Dellwo, Volker

Accurate and fast: Investigating efficiency in voice discrimination

Kirchhübel, Christin; Brown, Georgina

Intellectual property matters relevant to AI-based voice identification

Kreysa, Helene; Zäske, Romi; Schweinberger, Stefan R.

Impression formation across the life-span: Differential contributions of face and voice

Lin, Chenyi

Manipulating acoustic correlates for vocal persona transition: From neutral to friendly

Nieber, Leah; Kachel, Sven; Scharinger, Mathias

Diversify identity: Acoustic correlates of multiple gender facets in nonbinary and cisgendered speakers

Saus, Wolfgang

Singing phonetics vs. speech phonetics – A new approach to high-precision resonance control

Schwartz, Geoffrey; Wojtkowiak, Ewelina; Kaźmierski, Kamil; Asiaee, Maral

Matching perceptual similarity between voices in Polish

Truong, Thanh Lan; Weber, Andrea

Investigating speaker voice and ethnolinguistic identification of Vietnamese-German heritage speakers

Tsuchiya, Ayaka; Zangemeister, Maria-Kezia; Schweinberger, Stefan R.

Kinship perception in human voices: Ratings of trust, dominance and familiarity
in morphed voices at various levels of self-similarity

Wester, Janniek M; Larrouy-Maestri, Pauline

Effect of syntax and semantics on the perception of "humanness" in synthetic and natural speech

Xavier, Eduardo; Sarzedas, João; Conde, Tatiana; Pinheiro, Ana P.

The effects of long-term visual deprivation on speaker identity perception

Zhang, Ziyun; McGettigan, Carolyn

Factors affecting speech intelligibility and trait perception in virtual meeting contexts

Ziesenies, Hannah; Kreitewolf, Jens

Hearing voices: Altered voice perception and speech comprehension in hallucination-prone individuals

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POSTER SESSIONS

Time Session Duration Day 2: Thursday 29th August

11.00 AM - 12.30 PM

1 hr 30

POSTER SESSION 2

Asadi, Homa; Asiaee, Maral; Kazemi, Arefeh

Speaker recognition in bilinguals: A comparison of source and filter features using machine learning algorithms

Asiaee, Maral; Kaźmierski, Kamil; Wojtkowiak, Ewelina; Schwartz, Geoffrey

One speaker, two languages, two distinct voices?!

Barriando-Cebrián, Paula; Polo, Nuria; Lã, Filipa M.B.

Do spanish speakers change their fundamental frequency according to the gender and status of their interlocutors?

De Luca, Alessandro; Dellwo, Volker

Speakers are less discriminable when producing deceptive speech, and deceptive speech deteriorates speaker models' performance

Gully, Amelia; Pears, Nick

Understanding vocal tract shape variation: Lessons from face recognition

Hauck, Jonas; Gegner, Christian; Giglberger, Marina; Hilbert, Sven

Regensburger Stimmtraining: A comprehensive approach to prevent voice disorders in teachers

Hübert, Vanessa; de Jong-Lendle, Gea

Age estimation: Falsetto versus modal phonation

Liu, Elaine M; Yeh, Jih-Wei; Lu, Jen-Hao; Liu, Yi-Wen

Exploring adversarial perturbations to defend against deepfake voice cloning

Marques, Margarida; Amorim, Maria; Kotz, Sonja A.; Pinheiro, Ana P.

Altered self-other voice discrimination as a marker of hallucination proneness

Möller, Sophie; de Jong-Lendle, Gea

A forensic study on the identification of singers

Pellegrino, Elisa; Beuret, Debora; Kathiresan, Thayabaran;

Roswandowitz, Claudia; Fruholz, Sascha; Dellwo, Volker

Prosody plays a role in speaker discrimination: Insights from voice conversion

Perepelytsia, Valeriia; Giroud, Nathalie; Meyer, Martin; Dellwo, Volker

Neural correlates of voice familiarity and identity: An EEG study

Sarzedas, João; Roberto, Magda S.; Lima, César F.; Scott, Sophie K.; Pinheiro, Ana P.; Conde, Tatiana

Blindness affects vocal emotional perception of spontaneous and volitional laughs and cries: Behavioral and ERP insights

Skuk, Verena G.; Jacob, Isabel; Wientzek, Rebecca; Ward, Robert; Schweinberger, Stefan R.

Personality perceptions from vocal and facial trait averages

Ufer, Carina; Blank, Helen

Variability in voice context shapes spoken vowel perception

von Eiff, Celina I.; Erchinger, Lukas; Ruttloff, Jenny M.; Schweinberger, Stefan R.

Improving vocal emotion perception for cochlear implant users: An online training approach using vocal caricatures