**Recent Papers for Presubmission Enquiry:**

Nussbaum, C., Pöhlmann, M., Kreysa, H., & Schweinberger, S. R. (2023). Perceived naturalness of emotional voice morphs. *Cognition and Emotion*, *37*(4), 731-747.

* Unser Naturalness-Paper, citations: 2

Roswandowitz, C., Kathiresan, T., Pellegrino, E., Dellwo, V., & Frühholz, S. (2024). Cortical-striatal brain network distinguishes deepfake from real speaker identity. *Communications Biology*, *7*(1), 711.

* On deepfake voices

Staib, M., & Frühholz, S. (2021). Cortical voice processing is grounded in elementary sound analyses for vocalization relevant sound patterns. *Progress in Neurobiology*, *200*, 101982.

* Cortical voice processing, citations: 13

Duville, M. M., Alonso-Valerdi, L. M., & Ibarra-Zarate, D. I. (2022). Neuronal and behavioral affective perceptions of human and naturalness-reduced emotional prosodies. *Frontiers in Computational Neuroscience*, *16*, 1022787.

* EEG study about naturalness in emotional voices, citations: 3

Kühne, K., Fischer, M. H., & Zhou, Y. (2020). The human takes it all: Humanlike synthesized voices are perceived as less eerie and more likable. evidence from a subjective ratings study. *Frontiers in neurorobotics*, *14*, 593732.

* Extensive rating study on synthetic voices, citation: 79

Ferstl, Y., Thomas, S., Guiard, C., Ennis, C., & McDonnell, R. (2021, September). Human or Robot? Investigating voice, appearance and gesture motion realism of conversational social agents. In *Proceedings of the 21st ACM international conference on intelligent virtual agents* (pp. 76-83).

* Synthetic voices in a multimodal context, citations: 23

Hardy, T. L., Rieger, J. M., Wells, K., & Boliek, C. A. (2020). Acoustic predictors of gender attribution, masculinity–femininity, and vocal naturalness ratings amongst transgender and cisgender speakers. *Journal of Voice*, *34*(2), 300-e11.

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Merritt, B., & Bent, T. (2020). Perceptual evaluation of speech naturalness in speakers of varying gender identities. *Journal of Speech, Language, and Hearing Research*, *63*(7), 2054-2069.

* Different gender identities, citations: 18

Ko, S., Barnes, J., Dong, J., Park, C. H., Howard, A., & Jeon, M. (2023). The effects of robot voices and appearances on users’ emotion recognition and subjective perception. *International Journal of Humanoid Robotics*, *20*(01), 2350001.

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Mawalim, C. O., Galajit, K., Karnjana, J., Kidani, S., & Unoki, M. (2022). Speaker anonymization by modifying fundamental frequency and x-vector singular value. *Computer Speech & Language*, *73*, 101326.

* Speaker anonymization, citations: 19

Rodero, E., & Lucas, I. (2023). Synthetic versus human voices in audiobooks: The human emotional intimacy effect. *New Media & Society*, *25*(7), 1746-1764.

* Synthetic voices, citations: 20

Schreibelmayr, S., & Mara, M. (2022). Robot voices in daily life: Vocal human-likeness and application context as determinants of user acceptance. *Frontiers in Psychology*, *13*, 787499.

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Li, M., Guo, F., Wang, X., Chen, J., & Ham, J. (2023). Effects of robot gaze and voice human-likeness on users’ subjective perception, visual attention, and cerebral activity in voice conversations. *Computers in Human Behavior*, *141*, 107645.

* Synthetic voices in combination with gaze, citations: 16

Lu, L., Zhang, P., & Zhang, T. C. (2021). Leveraging “human-likeness” of robotic service at restaurants. *International Journal of Hospitality Management*, *94*, 102823.

* Multimodal context in service robots, citations: 147

Higgins, D., Zibrek, K., Cabral, J., Egan, D., & McDonnell, R. (2022). Sympathy for the digital: Influence of synthetic voice on affinity, social presence and empathy for photorealistic virtual humans. *Computers & Graphics*, *104*, 116-128.

* Synthetic voices in a multimodal context, citations: 32

Hu, P., & Lu, Y. (2021). Dual humanness and trust in conversational AI: A person-centered approach. *Computers in Human Behavior*, *119*, 106727.

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Im, H., Sung, B., Lee, G., & Kok, K. Q. X. (2023). Let voice assistants sound like a machine: Voice and task type effects on perceived fluency, competence, and consumer attitude. *Computers in Human Behavior*, *145*, 107791.

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Kapolowicz, M. R., Guest, D. R., Montazeri, V., Baese-Berk, M. M., & Assmann, P. F. (2022). Effects of spectral envelope and fundamental frequency shifts on the perception of foreign-accented speech. *Language and Speech*, *65*(2), 418-443.

* Manipulation, accented speech, citations: 1

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Hyppa-Martin, J., Lilley, J., Chen, M., Friese, J., Schmidt, C., & Bunnell, H. T. (2024). A large-scale comparison of two voice synthesis techniques on intelligibility, naturalness, preferences, and attitudes toward voices banked by individuals with amyotrophic lateral sclerosis. *Augmentative and Alternative Communication*, *40*(1), 31-45.

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Abdulrahman, A., & Richards, D. (2022). Is natural necessary? Human voice versus synthetic voice for intelligent virtual agents. *Multimodal Technologies and Interaction*, *6*(7), 51.

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Abur, D., Subaciute, A., Daliri, A., Lester-Smith, R. A., Lupiani, A. A., Cilento, D., ... & Stepp, C. E. (2021). Feedback and feedforward auditory-motor processes for voice and articulation in Parkinson's disease. *Journal of Speech, Language, and Hearing Research*, *64*(12), 4682-4694.

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Birkholz, P., & Drechsel, S. (2021). Effects of the piriform fossae, transvelar acoustic coupling, and laryngeal wall vibration on the naturalness of articulatory speech synthesis. *Speech Communication*, *132*, 96-105.

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**To be discussed:**

Miller, E. J., Foo, Y. Z., Mewton, P., & Dawel, A. (2023). How do people respond to computer-generated versus human faces? A systematic review and meta-analyses. *Computers in Human Behavior Reports*, 100283.

* Meta-analysis on face realism, but I don’t know if this counts as empirical paper, citations: 15

Diel, A., & Lewis, M. (2023). The vocal uncanny valley: Deviation from typical organic voices best explains uncanniness.

* Preprint, but in my view still one of the most important papers for us