

# Applications of Speech and Language Technologies in Healthcare

## Summary & Scope:

**This special session at Odyssey 2026** aims to bring together interdisciplinary research on speech and language technologies for healthcare and assistive communication. The session focuses on clinically grounded and deployable solutions, including assistive speech technologies, speech-based diagnosis and monitoring, and emerging communication paradigms such as silent speech interfaces, with an emphasis on inclusivity, personalisation, and real-world impact.

## Topics:

- Pathological and impaired speech processing
- Speech-based diagnosis and health monitoring
- Assistive communication and AAC technologies
- Silent speech interfaces and biosignal-driven communication
- Assistive TTS, voice conversion, and voice banking
- Personalised and adaptive speech technologies
- Tools, datasets, and reproducible research for healthcare

## Submission

- **Deadline:** March 15th, 2026
- **Subject Area:** 6.01 – Applications of Speech and Language Technologies in Healthcare
- **CMT:** <https://cmt3.research.microsoft.com/ODYSSEY2026/>
- **Templates:** <https://odyssey2026.inesc-id.pt/preparation-guidelines-and-templates/>

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