

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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