

# Medical speech recognition system

A Hungarian SME developed a medical speech recognition software which enables healthcare IT system providers to deliver seamlessly integrated digital dictation and speech recognition capabilities to hospitals, clinics, transcription companies. It increases the productivity of medical transcription, which results in reduced backlogs and faster turnaround time. The company is looking for partners for technical cooperation or research cooperation.

The Hungarian SME develops medical speech recognition software in 15 European languages and teleradiology system with digital medical document management software. The software is available in English, German, French, Spanish, Italian, Portuguese, Swedish, Finnish, Danish, Dutch, Catalan, Flemish, Hungarian, Slovenian, and Greek languages. The company offers an information capturing technology that incorporates various modules. The professional speech recognition technology speeds up the medical reporting while offering high flexibility to customise it to users' individual needs. The technology enables end users to create reports more efficiently by offering the possibility to dictate directly into templates, using auto-texts, i-felds and commands. It increases the productivity of medical transcription. Accurate information is available on time, making it possible for doctors to increase quality of care. The intelligent Speech interpretation (iSi) technology allows the understanding of natural language, thus reducing the correction effort for both the transcriptionists and the physicians who look after the reporting process themselves. It leaves out the 'um's and 'eh's, ignores dialogue that is not part of the dictation, implements corrections that are dictated as part of the text, fills the information into forms, and even rephrases sentences. The technology formats and organises text, for example adding section headings, numbering lists and inserting standard blocks of content. It emulates the capabilities of a good medical transcriptionist in order to generate usable reports with a minimum of human intervention. The company is looking for IT experts, speech recognition and synthesis developers active in medical field, especially in hospitals. Partners in the contributing regions would develop a cloud based services for providing medical resources including voice interaction with the system in various languages involved. Technical cooperation or research cooperation are envisaged for the further development of the technology.

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