

Research & Development Position



Commission for Scientific Visualisation
Austrian Academy of Sciences

Speech Enhancement for Dictation Systems

Speech recording is a common practice in daily professional activities (e.g. lawyers, physicians). In order to take over their daily transcription routines, the combination of dictation systems and automatic speech recognition (ASR) is becoming more and more popular. However, in many working environments (e.g. court of law, hospital, street) it is not always possible to record in silent or noise-free conditions, this fact causing ASR to become unreliable. The present R&D project aims to develop single-channel **signal-processing** techniques for removing digitally the background noise while preserving the speech captured by the dictation device. This denoising technique is foreseen to be implemented in current dictation devices.

The research work is at the *Commission for Scientific Visualisation* of the *Austrian Academy of Sciences*, **Vienna**, in close collaboration with **Philips Austria GmbH**, which is co-financing the project. The candidate must have a MD in either Electrical Engineering, Telecommunications, Computer Science or equivalent. Candidates with good knowledge of signal processing (either MD thesis or working experience) are particularly suited to the position. Expectations are to contribute to the research activities in speech processing, machine learning and software implementation. The duration of the research project is two years, existing the possibility of extension to four years in order to complete a PhD Thesis. Female candidates are especially encouraged to apply for the post with a view towards increasing the proportion of female researchers in the project.

The salary is according to the schema of the Austrian Science foundation (FWF). If you are interested in the position, please send an application to

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