

Postdoctoral position in Paris, France

Signal Processing and Experimental Technique for a Silent Speech Interface

The REVOIX project in Paris, France is seeking an excellent candidate for a 12 month postdoctoral position, starting as soon as possible. REVOIX (ANR-09-ETEC-005), a partnership between the Laboratoire d'Electronique ESPCI ParisTech and the Laboratoire de Phonétique et Phonologie, will design and implement a vocal prosthesis that uses a miniature ultrasound machine and a video camera to restore the original voice of persons who have lost the ability to speak due to laryngectomy or a neurological problem. The technologies developed in the project will have an additional field of application in telecommunications in the context of a "silent telephone" allowing its user to communicate orally but in complete silence (see special issue of *Speech Communication*, entitled *Silent Speech Interfaces*, appearing March, 2010, <http://dx.doi.org/10.1016/j.specom.2009.08.002>).

The project will build upon promising results obtained in the Ouisper project (ANR-06-BLAN-0166) which was completed at the end of 2009. The interdisciplinary REVOIX team includes junior and senior university and medical research staff with skills in signal processing, machine learning, speech processing, phonetics, and phonology. The ideal candidate for the postdoctoral position will have solid skills in signal processing, preferably with speech experience, but also in experimental techniques for man-machine interfaces, coupled with a with a strong motivation for working in an interdisciplinary environment to produce a working, portable silent speech interface system for use in medical and telecommunication applications. Salary is competitive for European research positions.

Contact : Professor Bruce DENBY denby@ieee.org