Post doctoral Position in Speech Recognition

Title: **Application and Optimization of Speech Detection and Recognition Algorithms in Smart Homes**

URLs: http://getalp.imag.fr/ http://sweet-home.imag.fr/

Start Date: October 2010

Duration and salary: 12 months, a. 1900 € monthly

Keywords: Speech Recognition, Home Automation, Smart Homes

Description: The GETALP Team of the Laboratory of Informatics of Grenoble invites applications for a full-time post-doctoral researcher to work on the SWEET-HOME ("Système Domotique d'Assistance au Domicile") national French project funded by the ANR ("Agence Nationale de la Recherche"). This project aims to deliver improved support and comfort to people who need support for independent living such as elderly. This assessment is usually done through sensing technology (e.g., microphones, infra-red presence sensors, door-contacts, etc.) which detects critical situations in order to generate the appropriate action to support the inhabitant (call to an emergency service, call to relatives . . .). A few microphones are set in an experimental apartment in order to recognize sounds and speech in real time. The recognition is challenging given that the speaker may be far from the microphone and because of additive noise and reverberation. Indeed, the position requires a significant experience in speech recognition. The project consortium is composed of the LIG (Joseph Fourier University), the ESIGETEL and the Theoris, Technosens and Camera-Contact companies. The experimental apartment DOMUS of the Carnot Institute of Grenoble will be used by the consortium during this project.

Requirements: The successful candidate will have been awarded a PhD degree in computer science or signal processing, involving automatic speech recognition. Expertise in environmental robustness, independent component analysis (ICA), is a bonus, as any other experience relevant to signal processing. The candidate will have a strong research track record with significant publications at leading international conferences or in journals. She/He will be highly motivated to undertake challenging applied research. Moderate level in French language is required as the project language will be French.

Applications: Please send to the address below (i) a one page statement of your research interests and motivation, (ii) your CV and (iii) references before **1st of July 2010.**

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