





POST DOC POSITIONS

The "Center for multidisciplinary research on signal processing" (CMRSP) is looking for post-doc candidates. CMRSP is a three year initiative funded by Conicyt-Chile with the mission to provide and disseminate a research and training framework for the integration of signal processing (SP) research between the current disjoint fields such as astronomy, mining, radar, volcanology, speech and communications. This center will foster:

- 1. Greater uniformity in the levels of SP expertise across a wider range of application fields;
- 2. Improved collaboration across currently distinct and separated research fields.

The great potential for cross fertilization between currently distinct application fields certainly suggests excellent prospects for fundamental and applied research with local and global impact. The center will be composed of Universidad de Chile (U. Chile) as the main institution, and Universidad de Santiago de Chile (USACH) and Universidad de la Frontera (UFRO) as associated institutions. The "Observatorio Vulcanológico de los Andes Sur" (OVDAS) and "The Center for Astrophysics and Related Technologies" (CATA) also collaborate with the center. From the research point of view, the main objective of the CMRSP is to propose and evaluate common SP frameworks to address fundamental research issues found in fields such as astronomy, mining, radar, volcanology, speech and communications. Six fundamental problems are related to SP:

- P1- Noise estimation and canceling
- P2- Pattern recognition
- P3- Equalization
- P4- Multi-object estimation
- P5- Confidence estimation
- P6- Periodic or quasi-periodic process evaluation and estimation

The proposed Center will address these common problems to generate the common SP solution frameworks P1 to P6. These will be applied to research topics in fields that are strategic to Chile and world-wide, and of great relevance at an international level including the above application areas.

Benefits: from 1 to 3 year, US\$ 40.000 /year

Candidates need to send their CVs to:

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