

Postdoctoral Position Offer

Location :

ENS Lyon, France

Duration:

12 months (possibly extended to 24), starting fall 2012.

Context:

ANR Grant FETUSES: Non Stationary and Multifractal Statistical Analyses of Per Partum Fetal Heart Rate for Asphyxia Diagnosis.

Application profile:

The FETUSES research project aims at developing statistical signal processing tools for per Partum Fetal Heart Rate characterization with aims at performing early detection of fetus acidosis and asphyxia.

FETUSES intends to hire a postdoctoral collaborator to contribute both to the developments of characterization strategies alternative to those already envisaged, and to the handling of the large database, to which analyses will be applied.

He/she is expected to have a solid theoretical background in statistical signal processing as well as a significant experience in large database handling (or at least to show a strong willingness to acquire such competence). Preference will hence be given to applications gathering both skills in statistical signal processing and in real-world data analysis.

The thematic scope remains largely open on purpose. However, skills not already significantly present within FETUSES (scaling, non-stationarity, wavelet, time-frequency), will be greatly appreciated, such as e.g., expertise in classification strategies, in inverse problems, in MCMC procedures, in adaptive approximation procedures...

Contact :

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Applications should be sent by email (with CV, selected articles and if relevant recommendation letter) : Patrice.abry@ens-lyon.fr

Further information available at :

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<http://ens-lyon.fr/PHYSIQUE/index.php?page=equipe3&langue=anglais>