



SIMBALS
Château de Thouars
27 allée des petits rois
33400 TALENCE

Research Internship Auto-tagging audio tracks

Contact: internships@simbals.com

Duration: 5 to 6 months

Company

Simbals is an innovative company founded in 2012 in Bordeaux, France. Our solutions come from many years of research at the University of Bordeaux in signal processing and data mining, illustrated by several international publications or patents. Our mission is to provide the most useful solutions from technology to help the industry providing the best user experience among the huge amount of music data available: cleaning catalogs, automatic tagging, AI and machine learning processes, recommendation and playlisting systems are a part of the possible applications.

Research Team

You will integrate the Research team, which is aiming at developing new innovative solutions for the music and audio industry, from the initial planning to implementation. For example, research team investigates areas such as audio and music content identification, music recommendation and personalized radios, smart music data, artificial intelligence for music.

Description

Our mission is to provide the most useful solutions from technology to help the industry providing the best user experience among the huge amount of music data available. Amongst these solutions, we propose auto-tagging technologies consisting of automatically attributing description tags (genres, moods, instruments, etc.) to audio tracks. Such technologies have to be constantly evaluated and improved in order to be able to deal with huge data.

Work during Internship would consist of adding new audio features to the existing sets, evaluating different machine learning algorithms and their parameters for improving existing methods beyond the state of the art. Moreover, this internship would also focus on one-shot learning to evaluate new solutions for tagging from a few audio examples.

The intern will be encouraged to propose solutions and work in autonomy.

Profile

Master student with background in applied mathematics or/and computer sciences

Skills

- Strong knowledge of machine learning and signal processing
- Good programming skills (Python, C++ is a plus)
- Strong interest in music
- High motivation and autonomy
- Working knowledge of French language
- Working knowledge of English language