

Sparsogram Implementation for Wildlife Intruder Detection

Roxana-Gabriela ROȘU, Corneliu RUSU

Abstract

The main objective of this work is the implementation of a new type of spectral analysis, that is more efficient and that can be more easily read than the spectrogram. This analysis should be used for detecting the intruders from a wildlife environment. It is called sparsogram and its main advantage is that it displays only the important spectral components of a given sound. In this way, one can easily see the dominant frequency bands of different audio signals. Later on a classification method is implemented based on these frequency measurements on the sparsogram, which assigns the sounds from a natural environment to different classes and subclasses of intruders.

Biography

Roxana-Gabriela ROȘU, student
Technical University of Cluj-Napoca
Faculty of Electronics, Telecommunications and Information Technology
26-28, G. Barițiu Street, 40027 Cluj-Napoca, ROMANIA
E-mail:Roxana.gabriela.rosu@gmail.com
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