Announcement

Master THESIS:

Realtime Monitoring of Acoustic Scene using Microphone Signal

DESCRIPTION

In the domain of subjective quality assessment the acoustic properties of room has a strong influence on participants’ perceived quality. The aim of this thesis is to build a realtime monitoring system which is sensitive to (acoustic related) changes in the environment. The tool should run on user’s browser without sending any information to a server. The tools should be integrated in other activities which let us testing it in real life scenarios. 

In this thesis, the candidate should builds JS based tool(s) that are able to perform basic signal processing tasks in realtime with the main goal of detecting changes in acoustic scene. The tool’s accuracy should be tested in different scenarios and it should be integrated to other modules (HTML pages with JS codes) that let us to test it in scale. The tool should work on all modern browsers despite the operation system.

REQUIREMENTS

- Basic knowledge in signal processing
- Professional JS, HTML, development skills and scripting language (either Python or MATLAB) and basic statistics.
- Great interest to the topic and well organized

CONTACT

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