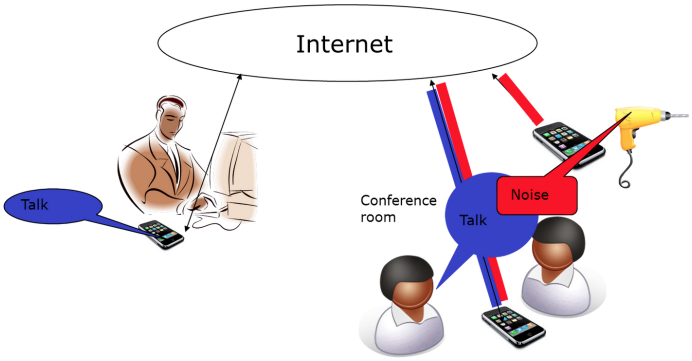
Kungliga Tekniska Högskolan

Project Report

Noise and echo cancellation in a teleconference



Authors:
Animesh DAS
Jonas SEDIN
Mohammad ABDULLA
Thomas GAUDY
Xavier BUSH

Advisor:
Per ZETTERBERG

Spring 2015

Contents

Chapter 1

Background

1.1 Introduction of the problem

Nowadays the scenarios with phone calls involved are increasing every day. This fact implies an increase of the probability of being in a noisy scenario, specially in big cities. As a result of the discomfort that the users suffer and claim, engineering and science have worked with different approaches to solve this problem.

The nature and origin of the noise affects directly to the solutions to implement, being it one of the biggest obstacles: a high performance of the implementation in different situations is a technical and a comfort requierement. Considering that the noise can be white or colored, coming from a concrete source or considered as background noise, and it could last from miliseconds to minutes, the solutions have to be adaptive enough to follow the noise and cancel it in the best possible way.

1.2 Historical Overview

1.3 Goal

1.4 Organization

Chapter 2

Methodology

Chapter 3

Theory

Chapter 4

Android

Chapter 5

Conclusions