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Faculty of Engineering and Technology School of Engineering

FINAL YEAR ENGINEERING REPORT 2002

BEng (Hons) Communication and Electronic Engineering

Project Title : Pattern Recognition (Software)
Noise Reduction Utilizing Spectrum Estimation

Student Name : Cheong Wai Keat (Eric)

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2nd Supervisor : Dr. Khedr

P. Coordinator : Dr. Khedr

Project Duration : May 2002 to Dec 2002





Abstract

In this 21st century, many wonders and mysteries in the past seem to be answered by today advancement in technologies. Human always dreams to build intelligent systems to aid in everyday activities such as robot, computer, handheld device, and communication device etc, to ease away some of the difficulties in our daily life. One of the systems that still in the developing stage, that has already implemented noise reduction utilising spectrum estimation was automatic speech recognition (ASR). This is something that we watched or read in those science fiction movies or novels.

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The objective of this project is to show how spectrum estimation can achieve his purpose into difference application, mainly in sound processing. Meanwhile, the topics in this proposal will help to skim through the advantages and disadvantages of difference techniques, flows of the process, estimated cost, and timeline of the project or Gantt chart.