

# 







شبكة المعلومــات الجامعية التوثيق الالكتروني والميكروفيلم



# جامعة عين شمس

التوثيق الالكتروني والميكروفيلم



نقسم بللله العظيم أن المادة التي تم توثيقها وتسجيلها علي هذه الأفلام قد اعدت دون آية تغيرات



# يجب أن

تحفظ هذه الأفلام بعيداً عن الغبار

40-20 في درجة حرارة من 15-20 منوية ورطوبة نسبية من

To be kept away from dust in dry cool place of 15 – 25c and relative humidity 20-40 %

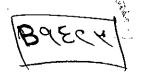












## Ain Shams University

### **Faculty Of Engineering**

Electronics and Communication Engineering Department

# Variable Bit Rate Speech Coding

#### A Thesis

Submitted in Partial Fulfillment of the Requirements of the Degree of Masters of Science in electrical Engineering

(Electronics and Communication Engineering)

#### By

#### Eng. Mohamed Ahmed Ahmed Masoud

B. Sc. In Electrical Engineering

#### Supervised By

Prof. Dr. Salwa El-Ramly

Professor of Communication Engineering

Electronics and Communication Engineering Department

Faculty of Engineering

Ain Shams University

#### And

Dr. Ayman Tawfik

Assistant Professor of Communication Engineering
Electronics and Communication Engineering Department
Faculty of Engineering
Ain Shams University

Cairo 2001

# **Examiner's Committee**

Mohamed Ahmed Ahmed Masoud Name

Variable Bit Rate Speech Coding Thesis

Master of Science in Electrical Engineering Degree

## Name, Title and Affiliation

Signature

Prof. Dr. Salwa Hussein El Ramly

Ain Shams University,

Faculty of Engineering,

Electronics and Communications Engineering Dept.

Prof. Dr. Hadya Saied El Hennawy

Ain Shams University,

Faculty of Engineering,

Electronics and Communications Engineering Dept.

Prof. Dr. Abdel Wahab Fayez Cairo University,

Faculty of Engineering,

Electronics and Communications Engineering Dept.

Date: 18/7/2001

. 

Statement

This Thesis is submitted in partial fulfillment of the requirements of the

degree of Masters of Science in electrical engineering (electronics and

communication engineering).

The work included in this thesis was carried out by the author in the

Department of Electronics and Communication Engineering, Ain Shams

University.

No part of this thesis has been submitted for a degree or a

qualification at any other university or institute.

Name

:Mohamed Ahmed Ahmed Masoud

Signature:

Date

: 26\5\2001

# C.V.

Name of Researcher

: Mohamed Ahmed Ahmed Masoud

Date of Birth

: 10 December 1974.

Place of Birth

: Damam – Saudi Arabia

Nationality

: Egyptian

First University degree

:B.Sc. in Electronics Engineering, Faculty of

Engineering, Damascus University.

Date of degree

:1997

carein hai

-

.

.

.

.

# Acknowledgment

No words can ever express my sincere gratitude to all the people who contributed to the fulfillment of this work.

I wish to express my deep gratitude and respect to my supervisor Prof. Dr. Salwa El-Ramly for her continuous guidance and support. She has introduced all the facilities in the communication laboratory. Her helpful and valuable discussions, guidance and strict notes were the major factors in completing this work. I would like also to thank her very much for supplying me with papers, books and many information.

I wish also to thank **Dr. Ayman Tawfik** for the assistance and support he gave which helped me to finish this thesis.

I would like to thank the Electronics and Communication Engineering Department in the of Faculty of Engineering, Ain Shams University, for the helpful comments, encouragement, and the unlimited assistance during this work. Also I am thankful to all friends who supplied me with information that helped me a lot in my research.

I am very thankful to my friend and colleague Mirette Mahmoud Sadek during the last two years. The friendly and supportive behavoir which makes her one of the unique persons I have ever dealt with. She was really great in her technical assistance, and was always present when needed.

Finally, I thank my family for their great love, support and many words of encouragement. Without them this thesis wouldn't have been finished, and I wouldn't have been were I am .They may not know it but they have a big part in this thesis being completed.

To the last of the

. .. .

•

.

· ·