102-1 Preliminary Syllabus, Da-Yeh Univ

Information

Title		Serial No. / ID	2047 / EDR 5044
Dept.		School System / Class	1 1
Lecturer		Full or Part-time	
Required / Credit	Optinal / 3	Graduate Class	No
Time / Place	( )567 / H369	Language	English

Introduction

The coding field has exploded with new theoretical developments, several of which have had significant practical consequences. Three of these new developments stand out in particular: coded-modulation, soft decision decoding and soft-in and soft-out iterative decoding techniques. These new developments have revolutionized the way coding is applied to practical systems.

Goal: covoluitional codes, coded-modulation, soft decision decoding, turbo decoding, low density parity check decoding

Outline

1.Introduction 2.Convolutional Codes 3.Trellis-Based Decoding Algorithms for Convolutional Codes
4.Sequential and Threshold Decoding of Convolutional Codes 5.Trellis-Coded Modulation
6.Turbo Coding & Decoding 7. low density parity check coding & decoding
8.Auto Repeat Request Systems

Prerequisite

error control coding