

100-2 大葉大學 選課版課綱

基本資訊

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| 課程名稱 | 錯誤控制編碼 | 科目序號 / 代號 | 1600 / EGR5345 |
| 開課系所 | 電機工程學系碩士班 | 學制 / 班級 | 研究所碩士班1年1班 |
| 任課教師 | 胡大湘 | 專兼任別 | 專任 |
| 必選修 / 學分數 | 選修 / 3 | 畢業班 / 非畢業班 | 非畢業班 |
| 上課時段 / 地點 | (一)123 / H719 | 授課語言別 | 英文 |

課程簡介

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

課程大綱

- 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

基本能力或先修課程

error control coding