

重新查詢

友善列印

0981學期 課程基本資料

系所 / 年級	資應系碩士班 1年級	課號 / 班別	79M00034 / A
學分數	3學分	選 / 必修	選修
科目中文名稱	模糊理論與應用	科目英文名稱	Fuzzy Theory and Applications
主要授課老師	謝俊逸	開課期間	一學年之上學期
人數上限	30 人	已選人數	10人

起始週 / 結束週 / 上課地點 / 上課時間

第1週 / 第18週 / I428 / 星期1第05節
第1週 / 第18週 / I428 / 星期4第02節
第1週 / 第18週 / I428 / 星期4第03節

請各位同學遵守智慧財產權觀念；請勿非法影印。

教學綱要

一、教學目標(Objective) 1. Understand the fuzzy theory. 2. Develop experience and capability for fuzzy application in various research fields.

二、先修科目(Pre Course)

三、教材內容(Outline)

1 Sets 2 Operations on Fuzzy Sets 3 Further Operations on Fuzzy Sets 4 Fuzzy Relations and the Extension Principle 5 Linguistic Variables and Fuzzy IF-THEN Rules 6 Fuzzy Logic and Approximate Reasoning 7 Fuzzy Arithmetic 8 Fuzzifiers and Defuzzifiers 9 Fuzzy Rule Base and Fuzzy Inference Engine 10 Design of Fuzzy Systems 11 Fuzzy C-Means Algorithm 12 Fuzzy Decision Making 13 Fuzzy Linear Programming 14 Possibility Theory

四、教學方式(Teaching Method)

1. Understand the fuzzy theory. 2. Develop experience and capability for fuzzy application in various research fields.

五、參考書目(Reference)

2009/9/17 Introduction
2009/9/24 Sets and functions
2009/10/1 Operations on Fuzzy Sets
2009/10/8 Further Operations on Fuzzy Sets
2009/10/15 Fuzzy Relations and the Extension Principle
2009/10/22 Linguistic Variables and Fuzzy IF-THEN Rules
2009/10/29 Fuzzy Logic and Approximate Reasoning

六、教學進度(Syllabi)

2009/11/5 Fuzzy Arithmetic 8 Fuzzifiers and Defuzzifiers
2009/11/12 mid-term
2009/11/19 Fuzzy Rule Base and Fuzzy Inference Engine
2009/11/26 Design of Fuzzy Systems
2009/12/3 Fuzzy C-Means Algorithm
2009/12/10 Fuzzy Decision Making
2009/12/17 Fuzzy Linear Programming
2009/12/24 Possibility Theory
2009/12/31 Project Presentations
2010/1/7 Project Presentations
2010/1/14 Final

七、評量方式(Evaluation)

平常成績:20% 報告成績:80%

八、講義位址(http://)

九、教育目標

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