

研究方法

課程介紹

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Introduction

- 本課程介紹一個針對資訊工程領域的完整研究流程
- 包含
 - ▶ 如何尋找研究題目
 - ▶ 如果研讀相關文獻
 - ▶ 如何定義題目
 - ▶ 如何設計演算法或數學分析
 - ▶ 如何評估效能
 - ▶ 如何撰寫論文
 - ▶ 如何製作簡報
- 期望研究生修過此課程後能對如何做一個完整的研究有所了解

Instructor: 王聲葦

- 淡江大學資訊工程學系
- 辦公室：E663、電話分機：2668
- Email: swwang@mail.tku.edu.tw

Time & Location

- Lectures: Thursday 18:10~19:00 @ D412 or MS Teams
- Office Hours: Thursday 10:00~12:00 @E663 or By appointment

Course Outline

- Introduction to **RESEARCH**
- Introduction to **Academic Integrity**
- Use of **Digital Library** (IEEEExplore and ACM DL)
- How to **READ** an academic paper and **EVALUATE** its quality
- Make your own **Research Notes**
- How to **FIND** the research problems and what is academic **Contribution**
- How to **SOLVE** the problems
- How to **EVALUATE** the performance of your proposed methods / algorithms
- Technical **WRITING**
- **PUBLISH** your research articles
- **PROTECT** your research data

Research Notes

- All of your research records
 - ▶ Meta data: where 、 who 、 when
 - ▶ The papers you have read
 - ▶ Any ideas
 - ▶ Success or Fail
 - ▶ Your programs

COVID-19 Issues

- 第一週 (09/23) 全部線上上課。
- 第二週起，依學號分流上課 (依學號後 2 碼分三梯次上課)。
- 防疫假、疫苗接種假請依學校規定辦理
- 每週會點名，確實掌握人數
- 實體課程請依防疫規定辦理
- 旁聽學生請勿到課堂上課

課程線上資源

- TKU iClass (修課學生專用)
- MS Teams (開放旁聽學生)
- Course Wiki (開放旁聽學生)

Grading

- Participation 30%
- Homework 30%
 - ▶ Ice Breaking Presentation
 - ▶ Case study
 - ▶ Academic Paper Reading
 - ▶ Research Presentation
- Research Notes 40%

Ice Breaking

- Say hello to your classmates
- From next week, **5 mins** presentation with slides at your first face-to-face class
- Suggested contents:
 - ▶ Who are you and where are you from?
 - ▶ What is your major in the university?
 - ▶ What is your job now?
 - ▶ What research topics are you interested in?
 - ▶ Anything special about yourself?

Q & A

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