

CISC7016/CISC8001

Advanced Topics in Computer Science



Department of Computer and Information Science
Faculty of Science and Technology



澳門大學
UNIVERSIDADE DE MACAU
UNIVERSITY OF MACAU

About the instructor

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Professor

Department of Computer and Information Science



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Research interests:

Image Processing and Pattern Recognition;

Information Security, Forensic and Privacy for Multimedia;

Adversarial Machine Learning and AI Security.



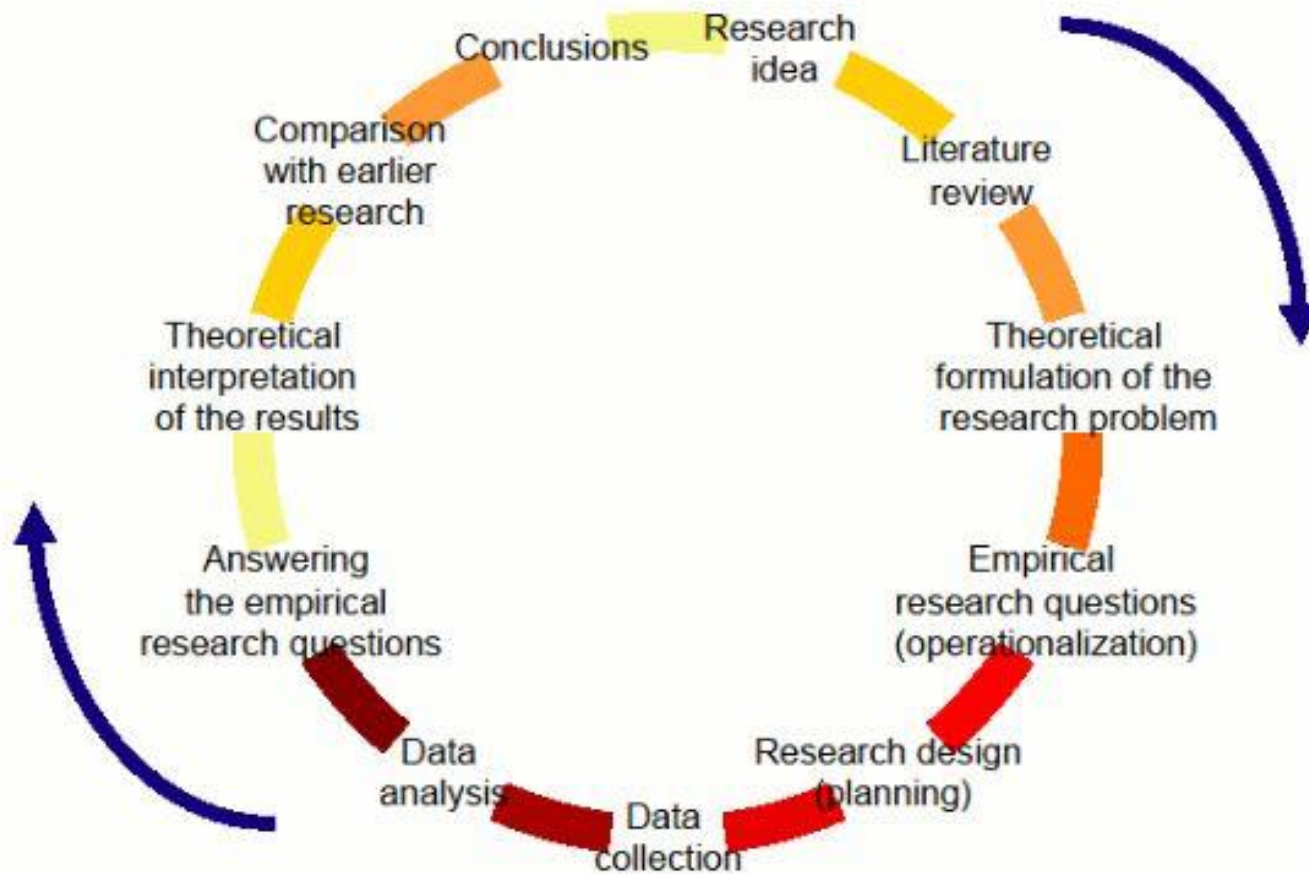
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Course Objectives

- Discuss CS topics including but not limited:
 - Information security, forensic and privacy for multimedia;
 - Image processing;
 - Pattern recognition and computer vision;
 - Deep learning;
 - AI Security.
- Learn and complete the research process for an academic paper.



The research process



Learning Outcomes

- Understand some selected research topics;
- Able to create a research idea;
- Able to review the literature;
- Able to formulate research problem;
- Able to design and implement the solution;
- Able to collect and analysis data;
- Able to conclude the results.



Targeted Students

- Have taken the related courses: Image Processing, Computer Vision, AI and Machine Learning, etc.;
- Have interest in academic research;
- Have interest in the advanced CS topics;
- Can attend the class every week.



Marking Scheme

- Class participation and discussions (30%)
 - Paper presentation (5% each)
 - Q&A and discussion (1% each)
- Presentations (40%)
- Academic Paper (30%)



Questions??

Course Homepage:

<https://ummoodle.um.edu.mo/course/view.php?id=122107>



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