HA NOI UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF INFORMATION AND COMMUNICATION TECHNOLOGY

Computer Vision

Chapter 0: General information

General information

- Course name:

COMPUTER VISION

- Code: IT5409
- Credit: 3(3-1-0-6)
  - Lecturer: 45 hours
  - Capstone project: 15 hours
  - Experiments: 0 hours

Evaluation

- Mid-term (0.4)
  - Capstone project evaluation
    - Program
    - Report
    - Presentation
  - Bonus
- Final term: written exam (0.6)

Rules

- In-class attendance
- Telephone:
  - turn-off or in vibration mode
- Come in/out if necessary
  - No need for asking permission
  - Without noise

Course Content

- **Chapter 1.** Introduction
- **Chapter 2.** Image formation, acquisition and digitization
- **Chapter 3.** Image Processing
- **Chapter 4.** Feature detection and matching
- **Chapter 5.** Segmentation
- **Chapter 6.** Motion object detection and tracking
- **Chapter 7**. Object recognition and deep learning

How to learn?

- Class attendance
- Reading additional articles / books
- Practice your-self (OpenCV, ...)
- QA

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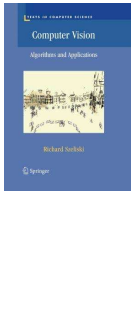
Reference books

- [1]. Richard Szeliski (2011). Computer Vision: Algorithms and Applications. Springer. http://szeliski.org/Book/
- [2]. David A. Forsyth, Jean Ponce (2011). Computer Vision: A modern Approach. Pearson
- [3]. Ranjay Krishna, Ed and Compiler “Computer Vision: Foundations and Application”, Stanford University, First printing, December 2017.



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VIỆN CÔNG NGHỆ THÔNG TIN VÀ TRUYỀN THÔNG
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Thank you for your attention!

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