

ĐẠI HỌC ĐÀ NẪNG

TRƯỜNG ĐẠI HỌC CÔNG NGHỆ THÔNG TIN VÀ TRUYỀN THÔNG VIỆT - HÀN

VIETNAM - KOREA UNIVERSITY OF INFORMATION AND COMMUNICATION TECHNOLOGY

한-베정보통신기술대학교

Nhân bản – Phụng sự – Khai phóng

Introduction to Computer Vision course





- 1. Overview of Computer Vision
- 2. Image Enhancement & Restoration
- 3. Image Segmentation
- 4. Feature Detection & Description
- 5. Image Classification
- 6. Convolutional Neural Network
- 7. Deep Learning Models for CV
- 8. Motion Estimation

No of credits: 3

Lectures: 2

Practice: 1



- Good programming skills in Python/C++
- Linear Algebra
- Probability Theory
- Artificial Intelligence, Machine Learning
- Digital Image processing



- [1]. Richard Szeliski, Computer Vision: Algorithms and Applications, Springer, 2022
- [2]. Adrian Rosebrock, Deep Learning for Computer Vision with Python (Starter/Practitione/ImageNet Bundle), PyImageSearch, 2017
- [3]. Rafael C. Gonzalez & Richard E.Woods, **Digital Image Processing**, 4th Edition, Pearson Education, 2018
- [4]. Aurelien Geron, Hands-on Machine Learning with Scikit-Learn, Keras & TensorFlow, O'reilly, 2019
- [5]. Teaching & learning slides



- On-going assessments:
 - Diligence (D attendance): **10%**
 - Labs (L personal programming practice): 20%
 - Middle Exam (ME written exam): 20%
- Final Exam (FE- presentation based on project): 50%
- Total score = 0.1*D + 0.2*L + 0.2*ME + 0.5*FE



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Enjoy the Course...!