

Pattern Recognition

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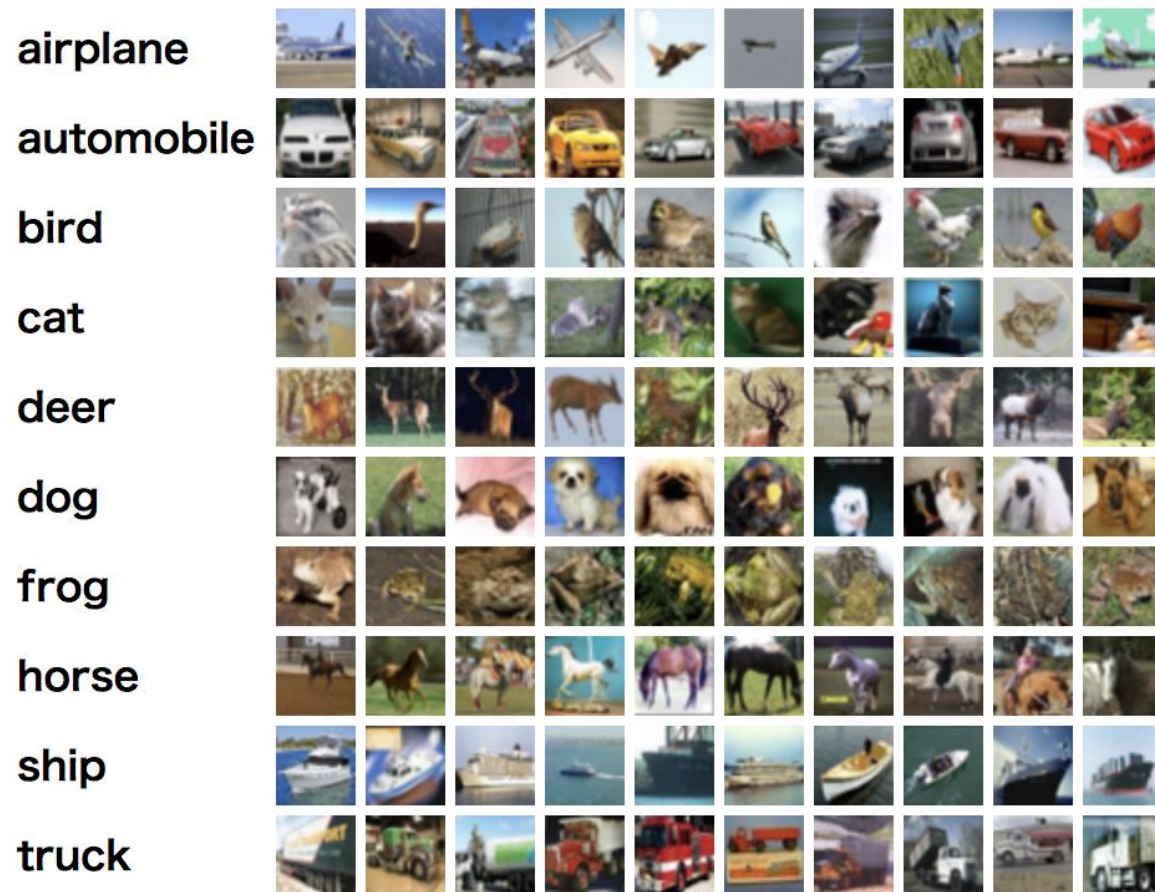
Introduction

- Text Book: Pattern Recognition (written by ill seok oh)
- Date: Tue./Thur. 12:00-13:30
- Lecture: Theory & Hand on Labs
- Teaching Assistant(TA): Please, email me. (9/5)
- Lecture Note: <https://github.com/sejongresearch/2019.Fall.PatternRecognition>

Grade

- Mid exam(20) / Final exam(20) / Term project(50) / Attendance (10)
- Term Project
 - Implementation research paper step by step
 - Beyond bags of features spatial pyramid matching for recognizing natural scene categories, CVPR 2006

Term Project



Task: vision orientated project

Classification / Identification(Retrieval)

Term Project

- Term Project
 - Image classification using Pattern Recognition
- Step1-5
 - [step1] Kmeans Clustering → Bag of words histogram
 - [step2] Vocabulary Tree → VT based BoW
 - [step3] SVM Classification/Kernel Trick → BoW classification
 - [step4] PCA/FV → BoW → PCA BoW / FV
 - [step5] Random Forest Classification

Time Schedule

- I will change the order of lectures as follow:
 - 1주차 What is a Pattern Recognition (소개)
 - 2주차 Kmeans Clustering (군집화)
 - 3주차 SVM (분류기)
 - 4주차 PCA (주성분분석)
 - 5주차 Tree (나무)
 - ...

Q&A

- Any question?