

Artificial Intelligence

- ❑ Time – Tuesday and Thursday 15:00 – 16:15 (Fall 2022)
- ❑ Location : 201 – 6202
- ❑ Credits – 3.00

- ❑ Instructor – Giltae Song, Ph.D.
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Requirements and Grading

- ❑ Textbook – Artificial Intelligence written by Stuart Russell and Peter Norvig
- ❑ Methodology of instruction – Lectures
- ❑ All course materials are available on PLMS
- ❑ Evaluation and grading
 - Attendance 10%
 - Homework and Quiz 30%
 - Midterm 30%
 - Final Exam 30%

Course objectives

- ❑ Understand the concept of solving problems and learning algorithms
- ❑ Learn systematic skills for developing machine learning approaches and apply them for practical problems

Course overview

- ☐ Week 1: Introduction
- ☐ Week 2: Informed Search
- ☐ Week 3: Local Search
- ☐ Week 4: Logical Inference
- ☐ Week 5: Knowledge representation
- ☐ Week 6: Uncertainty
- ☐ Week 7: Bayesian Networks
- ☐ Week 8: Midterm
- ☐ Week 9: Inference in Bayesian network
- ☐ Week 10: Decision trees
- ☐ Week 11: Performance measurement and overfitting
- ☐ Week 12: Cross validation and regularization
- ☐ Week 13: Linear regression
- ☐ Week 14: Linear classification
- ☐ Week 15: Reviews
- ☐ Week 16: Final exam