Artificial Intelligence

Lecture 1 – Course presentation

Brigitte Jaumard

Dept of Computer Science and Software Engineering

Concordia University

Montreal (Quebec) Canada

General information

- Course name
  - Artificial Intelligence
- Number of lectures
  - 12 x 2h + final exam (4h)
- Lecturer
  - Brigitte Jaumard
  - Department of Computer Science and Software Engineering, Concordia University, Montreal, Canada
  - bjaumard@cse.concordia.ca

Goals

- Total image of AI

- Basic *concepts* of AI

- Major *techniques* of AI

- Important *applications* of AI

Content

- Introduction
- Agents
- Problem Solving
  - Search Algorithms
  - Constraint Satisfaction Problems
- Logic and Inference
- Planning
- Machine Learning

Reference

- Book
  - *Artificial Intelligence – A Modern Approach*. Stuart Russell and Peter Norvig. Prentice Hall (Edition 3)
  - Soft copy of the book: https://readyforai.com/download/artificial-intelligence-a-modern-approach-3rd-edition-pdf/
  - Solution of exercises of the book: https://www.studocu.com/en/document/university-of-birmingham/introduction-to-ai/book-solutions/aisolutions-solution-manual-artificial-intelligence/1582132/view (Edition 3)

Evaluation

- Final examination
  - 70%
  - Closed book
- Continuous assessment
  - 30%
  - 1-3 exercises per lecture, to be submitted all together **with a single .pdf file**
  - First set of exercises (Lectures of this week), by at the end of the lectures, before April 21, 2019, midnight.
  - Second set of exercises (Lectures of 2nd week), by at the end of the lectures, before April 28, 2019, midnight.

Some educational recommendations

- Attend classes

- Read the reference book (see instructions of the end of the slides for each lecture)
  - *Artificial Intelligence – A Modern Approach*. Stuart Russell and Peter Norvig. Prentice Hall

- Do not hesitate to
  - Ask questions
  - Give your opinions/feedbacks
  - Discuss with your lecturer
  - Go through the suggested exercises with the use, if needed, of their solutions. Some of these exercises with minor changes will come back in the final exam.