

# **Artificial Intelligence (CS311)**

Course Information

# Course Information

- **Instructors**

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Open Office Hours: 16:00 – 18:00, on Friday of every teaching week

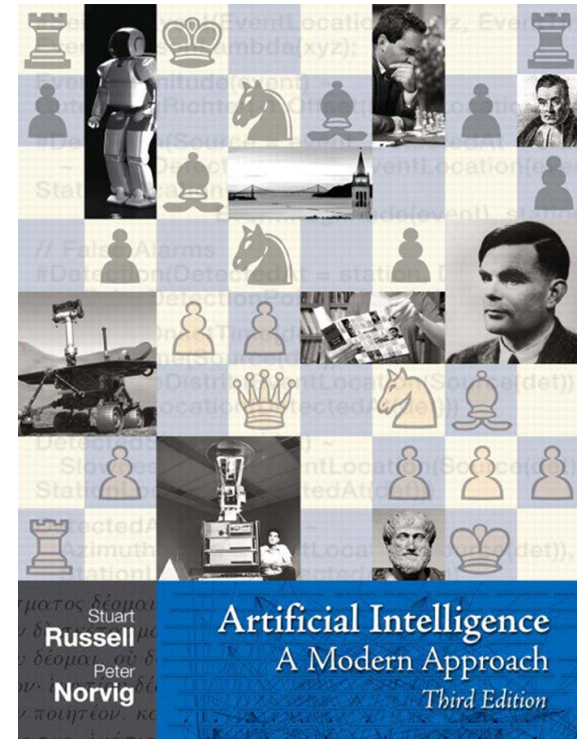
- **Tutors**

- Teaching Assistants

- Please do **not** expect **immediate** response from us, although **we will do our best** to support your study as much as possible.

# Course Information

- **Main reference**
  - **Artificial Intelligence – A Modern Approach (3<sup>rd</sup> Edition)**
  - S. Russel & P. Norvig
  - A big book (27 chapters)
  - Pre-knowledge: algorithm, data structure, complexity, calculus, probability, and linear algebra.



# Course Information

- **Structure**

- Introduction & Intelligent Agent
- Uninformed Search & Informed Search & Local Search & Adversarial Search
- Constraint Satisfaction Problems
- Logic
- Machine Learning
  - Concept & Linear Model & Neural Networks & Decision Tree & Naive Bayes & Ensemble & Clustering & SVM & Reinforcement Learning
- Natural Language Processing

- **Projects**

- 3 mini-projects

# Course Information

- **Requirements**

- Final Score depends on: (final-exam) + (lab + project)
- The weights are approximately 1 (40%+10%) : 1 (10%+15%+15%+10%)
- Please **do not negotiate** for more scores (no matter for what reason), unless we make a mistake in calculating your scores.
- Please join the QQ Group of this course.
- **Note:** The 3 mini-projects are **crucial**.
  - e.g., if you never attend and submit only 1 out of 3 projects, you probably will fail.

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- **Projects**

- 3 projects in total.
- We can elaborate on the project requirements in lab, but will **not** provide technical support (you can search for and use any online materials though).
- Please finish the 3 projects **independently** (good chance to practice/prepare for your postgraduate study or job).
- Project report/program submitted **after the deadline** will be **marked 0**.
- Discussions and sharing are encouraged, but duplicated submissions, either program or report, will be **marked 0** for all involved submissions.

# About AI

- Is AI a threat to our humankind? **“The development of full artificial intelligence could spell the end of the human race.”**  
Prof. Stephen Hawking
- **AI is a flourishing and exciting field: everyone can contribute.**
- Looking forward for an exciting learning AI journey together!

To be continued