SWINBURNE UNIVERSITY OF TECHNOLOGY

COS30019: Introduction to Artificial Intelligence

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Staff information

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Subject Roadmap

- Introduction
- Intelligent agents
- Search
- Knowledge representation and reasoning
- Planning
- Probabilistic reasoning and Bayesian networks
- Adaptation and learning

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Meeting time

- Lectures:
  - When: Monday 14:30 – 16:30
  - Where: ATC101 (Face-to-Face)
- Tutorials:
  - **Starting week 1**
  - Tutorials will be delivered Face-to-Face (please check your Timetable for the venue of your tutorial).
- **Note that ALL classes RUN on Labour Day (Monday March 11th in Week 3)**
- Consultations:
  - By email appointment

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Subject Assessment (Provisional)

- 2 Assignments – 30% and 20%
  - Progress on assignment must be shown in tutorials
  - Involves problem solving
- Mid-Semester Test (25%) and Final Assessment Questionnaire (25%)
  - Focus will be on conceptual understanding of all main topics covered in the lectures and the work of the tutorials
  - Tutorials will help in facing the exam with confidence!
  - Mid-Semester Test will be organised in Week 7 and cover the materials in Weeks 1-5.
  - Final Assessment Questionnaire will be conducted during the university examination period and mainly cover the materials in Weeks 6-11.

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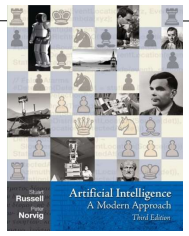
Subject Information

- Textbook
  - Russell, S.J., Norvig, P.,
    Artificial Intelligence: A Modern Approach,
    3rd edition, Prentice-Hall, 2010. **[AIMA]**



- References
  - B. Coppin "Artificial Intelligence Illuminated" Jones and Bartlett Publishers, 2004
  - Nilsson "Artificial Intelligence: A New Synthesis" Morgan Kaufman Pub. 1998
- Core Aims
  - Understand fundamental concepts of Artificial Intelligence (AI) and generic problem solving techniques
  - Apply advanced algorithms and data structures to solve common problems
  - Design software that implements AI concepts.

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Lectures

- Focus is on theory
- High-level conceptual discussion of the algorithms
- Assignment discussion (10-15 minutes)
- Q & A of topics covered so far (10-15 minutes)

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Tutorials

- Aim is to ensure that all examinable aspects (theory) are fully covered in these sessions
  - Discussion on all fundamental topics in the subject
  - Some simple problems that are to be solved using AI techniques
- Assignment progress monitoring & answering programming exercise questions
- Discussion on potential exam questions, sample exam paper

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We are here to help …

- Ask us questions
- Talk to us when you run into difficulty
- Identify your issues early and take proactive actions
- And,
  - **ASK US QUESTIONS**

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