CS7IS2: Artificial Intelligence Assignment 2

Due date: Friday April 12th 23:59.

In this assignment, you are required to produce a report where you analyse state-of-the-art AI algorithms of your choice or you define and evaluate your own algorithm. This assignment is worth total of **30% of your overall CS7IS2 mark**.

The files provided contain the requirements specification and guidelines (a zip folder containing a .tex source and a .doc file) for writing your report. In addition, they provide also the format for the report.

You can work in groups up to 4 people. You can work alone, but group work is recommended.

A report must be between 5 and 10 pages (proportional to the group size).

Registering groups

- If you are working in group, you need to **register your group members** by sending me an email with the name of participants using the subject line "CS7IS2 Group members". The email has to be sent by **Friday 22nd of March 2019**. This deadline is mandatory, failure will result in a penalty – 10%. If you would like to work in a group but do not have teammates yet, post a request on the Discussion link in Blackboard.

- Your registration email also needs to contain the **link to a repository** where you will keep all of your code and report text produced for this project. I will not inspect this in detail, but will use it to verify that all team members contributed to the project. If you are using a public repository, please include only the link to it in the email. If the repository is private, you will need to add me as a member to be able to see your contributions. My github account is duspari, and bitbucket one ivanad. If you are using college-hosted gitlab.scss.tcd.ie, my college username is duspari.

Submission instructions – please read fully and carefully.

Submissions are via blackboard, and due by Sunday March 10th 23:50. Submissions will be checked for plagiarism using Turnitin.

Submit **a single zip file** containing only the **pdf of the final report** and **the readme.txt file**, named named NAME_SURNAME_STUDENTID_assignment2.zip.

Readme.txt file should contain the following information:

- Link to repository
- Group members list and role and summary of contributions of each member in the team
- Whose late allowance did you use and how many days, in case you are submitting late

Reminder, you have up to 4 late assignment days to split between this assignments and assignment 1. Any late submissions after you have used up your free late days will be docked 33% per day. Given that this is a group report, the longest late allowance between the members applies (e.g., if team members have 0, 2, and 4 days unused from the previous assignment, the whole group is allowed

submit up to 4 days late). Please note in readme.txt the name of the person whose late submission allowance did you use and how many days.

All members of the group need to submit the same report in their blackboard profiles.

Some helpful links to get you started

AI-related conferences

- IJCAI International Joint Conferences on Artificial Intelligence Organization
- ECAI European Conference on Artificial Intelligence
- AAAI - Conference on Artificial Intelligence
- AAMAS - International Conference on Autonomous Agents and Multiagent Systems
- IJCNN - International Joint Conference on Neural Networks
- GCAI - Global Conference on Artificial Intelligence
- IJCCI - International Joint Conference on Computational Intelligence
- AAAI/ACM - Conference on AI, Ethics, and Society
- IJCAR - International Joint Conference on Automated Reasoning
- FLoC - Federated Logic Conference
- KR - International Conference on Principles of Knowledge Representation and Reasoning
- NIPS Annual Conference on Neural Information Processing Systems
- ICML International Conference on Machine Learning
- ECML PKDD European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases
- CIKM Conference on Information and Knowledge Management
- SIGIR Association for Computing Machinery's Special Interest Group on Information Retrieval
- RecSys ACM Recommender Systems Conference
- ACL Association for Computational Linguistics
- NAACL HLT North American Chapter of the Association for Computational Linguistics
- COLING International Conference on Computational Linguistics

Journals

- AI Magazine
- AI Communications
- Journal of Artificial Intelligence Research
- IEEE Transactions on Computational Intelligence and AI in Games
- IEEE Transactions on Pattern Analysis and Machine Intelligence
- IEEE Intelligent Systems
- Computational Intelligence

In addition, every chapter of the book "Artificial Intelligence: a Modern Approach" ends with a "Bibliographical and Historical Notes" section which provides further reading and lists the relevant conferences/journals for the topic covered in the chapter.