

CS 461 – ARTIFICIAL INTELLIGENCE

Term Project Proposal

Spring 2021

(Weight: 2.5% = 5 pts.)

DELETE ALL GREEN TEXT IN YOUR PRINTED SUBMISSION AND STRICTLY CONFORM TO THE GIVEN FORMAT

Group Nick (= Name of the Program)

Come up with a single word. Use nothing but upper-case letters.

TAKEFIVE

Members

Max. 5 members. The first member in the list is the contact person. Notice how you specify the course sections. Do not include any other info (e.g., student ID no's, etc.)

(S2) Tessa Lovelace (CONTACT)
(S1) Sergey Grin
(S1) Billy Hates
(S2) Grace Murray Rapper
(S2) Alan Mask

Description

≈100 words. You should start exactly with the following introduction and then give your own description of what your project will be all about, based on your understanding of the explanations I've offered in class.

In this project, we'll write a program called TAKEFIVE. We'll use the < . . > programming language. Our program will input a 5x5 New York Times mini-puzzle (cf. <https://www.nytimes.com/crosswords/game/mini>) and its solution. [NOW CONTINUE ...]

Literature

≈100 words. Find an academic (scholarly) source, read it, and write a review of it. This source can be a journal article, a book chapter, or a conference paper related to crossword puzzles (but, needless to say, studying them from a computational angle). Include a legible copy of the 1st page of the source as the 2nd page of your submission. The following is an example review and source for Sudoku.

REVIEW: The structure of Sudoku puzzles is similar to constraint satisfaction problems, including protein folding. Via an exact mapping of Sudoku into a continuous-time dynamical system, the authors show that the difficulty of Sudoku translates into transient chaotic behavior exhibited by this system. [...]

SOURCE: Ercsey-Ravasz, M., Toroczkai, Z. The Chaos Within Sudoku. *Sci Rep* 2, 725 (2012).
<https://doi.org/10.1038/srep00725>

To cite your source, you may want to follow the MLA Style Guide (or something similar):

https://owl.purdue.edu/owl/research_and_citation/mla_style/mla_formatting_and_style_guide/mla_formatting_and_style_guide.html

The CONTACT must submit this to Moodle as a 2-page pdf on Wed Feb 10th until 2 pm. Late submissions will have 2 pts. deducted immediately. Then they'll have 1 pt. deducted for every late day. (A new day begins at midnight.)