

Exercise Artificial Intelligence WS 10/11

Information System and Machine Learning Laboratory (ISMLL)

Dr. Tomáš Horváth, Rasoul Karimi

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Exercise 1: (3 points)

a) Define in your own words:

- rational action,
- rational thinking,
- human activity and
- human thought

What is the difference between the four terms?

b) Turing developed in the 1950s, the famous Turing Test for artificial to define intelligence. Give two examples of simple extension /change options of the Turing test (eg: instead of written language Keyboard input) and explain how, in comparison to the classic Turing test difficult or maybe even easier

Exercise 2: (7 points)

a) Define the following concepts:

- Possible state
- Action
- Goal
- Cost function

b) Suppose that we want to build an intelligent computer to play "Tic-Tac-Toe" game. This program is according to which definition of artificial intelligence? (use exercise 1)

