

Selected topics in Artificial Intelligence

Organisation and rules

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Presentation compiled for taking notes during lecture



Wrocław University
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1 Introduction

2 Literature



Credit rules (1/2)

Lecture ends with a final test.

The final grade for the course is calculated using below formula

$$G = \frac{1}{2}T + \frac{1}{2}L \quad (1)$$

where T is a grade from lecture test and L is a grade from laboratory classes.

Both grades (T and L) have to be positive to get a positive course grade.



Credit rules (2/2)

Short tests cover material from present or previous lectures.

$$T = \frac{1}{n-1} \sum_{i=1}^{n-1} T_{s,i} \quad (2)$$

where

- $T_{s,i}$ – i^{th} short test grade,
- n – total number of short tests.

The worst grade from short test is rejected, it includes the situation when the student is not present at the lecture when a short test is written.

If above condition is not met then $T = T_f$ (grade from final test).



Additional information about this course is available at `edu.domski.pl` (available in English).

You have to go to *Courses->Selected topics in Artificial Intelligence* tab and select *lecture* or *laboratory classes*



Office hours

Office hours are available at `edu.domski.pl`.
You have to go to *Office hours* tab.
The office hours are held in room 209A, building C3.



Course outline

The course covers following subjects:

- introduction to artificial intelligence,
- linear regression,
- gradient descent,
- machine learning algorithms,
- convolutional neural networks,
- recurrent neural networks,
- problems and challenges of modern AI.



Literature

- Russell, Norvig: Artificial Intelligence A Modern Approach Third Edition, Prentice-Hall, 2010.
- Goodfellow, Bengio, Courville: Deep Learning, MIT Press, 2016.
- Lutz: Learning Python Fifth Edition, O'Reilly, 2013.
- Geron, Hands-On Machine Learning with Scikit-Learn and TensorFlow, O'Reilly 2017.



Literature (1/1)



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