



Wrocław
University
of Science
and Technology

Massive Data Processing

Lecture 0+1

dr inż. Tomasz Kajdanowicz, Roman Bartusiak, Piotr Bielak

November 9, 2019



HR EXCELLENCE IN RESEARCH

Overview

Lo - Introduction

Lecturers

Classes

Syllabus

Grading

Materials

Lecturers

LO - Introduction

- ▶ dr inż. Tomasz Kajdanowicz
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- ▶ Roman Bartusiak
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- ▶ Piotr Bielak
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Exact office hours will be announced, but you can find us in **room 441, building A-1**. Please send an email beforehand.

Classes

Lo - Introduction

Lecture

- ▶ Theoretical introduction
- ▶ More general look
- ▶ Lightly connected with laboratories

Laboratories

- ▶ End-to-end project
- ▶ AWS usage possibility
- ▶ Punctuality
- ▶ Code quality

Syllabus

LO - Introduction

- ▶ *Języki i platformy przetwarzania danych masowych (Map-reduce, Erlang, Spark, Hadoop)*
- ▶ *Message Passing Interface – standard przesyłania komunikatów pomiędzy procesami programów równoległych*
- ▶ *Paradygmaty i specyficzne problemy w przetwarzaniu danych masowych*
- ▶ *Algorytmy rozproszone dla przetwarzania masowych macierzy*
- ▶ *Algorytmy rozproszone dla przetwarzania masowych grafów i sieci*
- ▶ *Metody aproksymacji w danych masowych*
- ▶ *Rozproszone algorytmy uczenia maszynowego*

<https://bit.ly/2l2Y8ei>

Grading

Lo - Introduction

Lecture

- ▶ Exam (on last lecture)
- ▶ LABORATORIES NOT TAKEN INTO ACCOUNT

Laboratories

- ▶ Project divided into parts
- ▶ Each part graded separately
- ▶ Each part must be passed
- ▶ All parts influence final grade
- ▶ Possibility to get 5.5 grade by doing extra exercises

Materials

LO - Introduction

- ▶ <https://lsdp.ml>
- ▶ AWS Educate - <https://awseducate.com>
- ▶ Github Classroom - <https://classroom.github.com>
- ▶ <http://web.stanford.edu/class/cs246/>

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