



Wrocław  
University  
of Science  
and Technology

# Massive Data Processing

## Lecture 0

dr inż. Tomasz Kajdanowicz, Roman Bartusiak, Piotr Bielak

November 9, 2019



HR EXCELLENCE IN RESEARCH

# Overview

Lo - Introduction

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# Lecturers

## LO - Introduction

- ▶ dr inż. Tomasz Kajdanowicz  
tomasz.kajdanowicz@pwr.edu.pl
- ▶ Roman Bartusiak  
roman.bartusiak@pwr.edu.pl
- ▶ Piotr Bielak  
piotr.bielak@pwr.edu.pl

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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