

Syllabus 2017 Human–Social Information Sciences Data Science Basic

Japanese

Basic information

held this year:	yes
instructor(s)	Prof. Nobuaki OBATA, Assoc.Prof. Etsuo SEGAWA, Assis.Prof. Takeo URAMOTO, Assis.Prof. Shun KATAOKA, Assis.Prof. Naho ORITA
room	GSIS 5F lecture room
schedule	The latter period (Friday) 14:40–16:10
begins on:	10/06

Objectives and outline

We learn elementary foundations which need for studying data sciences. In particular, we study elementary parts of the following topics by five lectures: ①Foundations in Regression Analysis ②Bayesian Statistics ③A Rudimentary Knowledge of Multivariate Analysis ④Computability theory ⑤Computational linguistics

Class plan

- ① Foundations in Regression Analysis
 - 1) Review on statistical model and its distribution
 - 2) Regression analysis
 Lecturer: Etsuo SEGAWA
10/06, 10/13

- ② Bayesian Statistics
 - 1) Introduction to the statistics
 - 2) Bayesian statistics (foundation)
 - 3) Bayesian statistics (application)
 Lecturer: Shun KATAOKA
10/20, 10/27, 11/10

- ③ A Rudimentary Knowledge of Multivariate Analysis
 - 1) Random vectors and multi-dimensional distributions
 - 2) Statistical inference
 - 3) Normal Linear Models
 Lecturer: Nobuaki OBATA
11/17, 11/24, 12/01

- ④ Introduction to computability theory
 - 1) the concept of computability
 - 2) formal language theory
 Lecturer: Takeo URAMOTO
12/08, 12/15, 12/22

- ⑤ Computational linguistics
 - 1) Text mining
 - 2) Simulating vocabulary explosion
 Lecturer: Naho ORITA
01/12, 01/19, 01/26

Evaluation

reports

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