COURSE DETAIL

BIG DATA
Country Netherlands
Host Institution Wageningen University and Research Center
Program(s) Wageningen University
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Statistics Bioengineering
UCEAP Course Number 100
UCEAP Course Suffix
UCEAP Official Title BIG DATA
UCEAP Transcript Title BIG DATA
UCEAP Quarter Units 5.00
UCEAP Semester Units 3.30

Course Description
This course discusses both the key concepts of Big Data and provides hands-on-experience in developing and using Big Data systems. It introduces concepts related to Big Data system architectures, distributed file systems, the Map-Reduce framework, Resilient Distributed Data sets, and scalable linear and machine learning models, and how they are made available with cutting-edge technologies such as the Hadoop Distributed File System and Apache Spark. Students practice with tools with individual tutorials, and gain hands-on experience by working on a group project formed as a "data challenge". Students demonstrate the use of the tools learned in the course, but also their creativity as data scientists, that includes communicating the value of their findings with visualization tools. The course covers the following topics: the basic concepts related to Big Data and data-driven value-creation in the environmental, social and life sciences; Big Data methods for designing scalable applications in the environmental, social and life sciences; the role of various tools in the Big Data ecosystem; data analytics for discovery, and data visualization for communication of meaningful patterns in data.

Language(s) of Instruction
English

Host Institution Course Number
INF-33806

Host Institution Course Title
BIG DATA

Host Institution Course Details

Host Institution Campus
Soil, Water, and Atmosphere

Host Institution Faculty

Host Institution Degree

Host Institution Department

Information Technology
Course Last Reviewed

Print