Big Data: Architectures and Data Analytics

Exam Rules – Academic Year 2015-2016

The exam consists of a written exam.

Only students regularly booked through the Didactic portal (Portale della Didattica) are admitted to the classroom for the written exam.

- Students must provide their own identity document to be allowed to take the exam
- The exam duration is 2 hours
- Paper books and paper notes are allowed. Instead, no electronic devices (PC, laptop mobile phone, calculators, etc.) are allowed.

The written exam includes

- 1 or 2 programming exercises (max 27 points)
 - Design and develop Java programs based on the MapReduce programming paradigm and/or RDDs
- 2 multiple choice questions (max 4 points)
 - Topics of the multiple choice questions
 - Technological characteristics and architecture of Hadoop and Spark
 - HDFS
 - MapReduce programming paradigm
 - Spark RDDs, transformations, and actions
 - NoSQL databases and data models
 - Network infrastructure for Big data

The final exam grade is given by the sum of the grades of the two parts.

To pass the exam the following constraint must be satisfied:

• Final exam grade \geq 18