PATC: Introduction to Big Data Analytics

Objectives

The objective of this course is to introduce the main concepts and technologies related to Big Data and Data Analytics and its applications to real projects. The course brings together key information technologies used in manipulating, storing, and analysing data including:

- Introduction to storage and process unstructured data. Main concepts of NoSQL databases
- Large scale processing: Apache Spark and its core libraries for data manipulation, machine learning, data streams and graph analytics
- Basics of Python deep learning technics with TensorFlow
- Characterization of a data mining problem and its relation with business intelligence, dig data and exploratory statistics
- Basic concepts of data visualization and tools

Learning Outcomes

Students will be introduced to systems that can accept, store, and analyse large volumes of unstructured data. The learned skills can be used in data intensive application areas.

Academic Staff

Course Convener: Maria-Ribera Sancho

Course Lecturers: To be announced

Materials
The relevant materials will be made available to the participants during the course.

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• For further details, please contact BSC?CNS patc [at] bsc [dot] es

Further information

All PATC Courses at BSC do not charge fees.

CONTACT US for further details about MSc, PhD, Post Doc studies, exchanges and collaboration in education and training with BSC.
For further details about Postgraduate Studies in UPC - Barcelona School of Informatics (FiB), visit the website.

Sponsors: BSC and PRACE 5IP project are funding the PATC @ BSC training events.
If you want to learn more about PRACE Project, visit the website.

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