

BSC Training Course: 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:

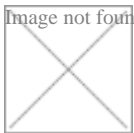
- Introduction to storage and process unstructured data. Main concepts of NoSQL databases
- Large scale processing: Apache Spark and its core libraries for data manipulation, machine learning, data streams and graph analytics
- Characterization of a data mining problem and its relation with business intelligence, dig data and exploratory statistics
- Basic concepts of data visualization and tools
- Awareness on existing biases in Big Data Analytics and Artificial Intelligence (AI) from a multidisciplinary perspective

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

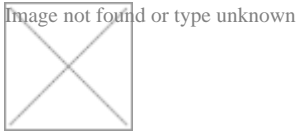
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Course Convener: Maria-Ribera Sancho, E&T Manager, BSC

Course Lecturers: Josep Lluís Berral (BSC), Patricio Reyes (BSC), Miguel Ponce de León, Computational Biology (BSC) Oscar Romero (UPC), Albert Abelló, inLab FIB and Petar Jovanovic (UPC), Sergi Nadal, Dept. of Service and Information System Engineering, (UPC-BarcelonaTech), Karina Gibert (Intelligent Data Science and Artificial Intelligence Research Center (IDEAI-UPC), Guillermo Marin, Designer for Scientific Visualization (BSC), Atia Cortés (BSC), Davide Cirillo, Recognised Researcher in Machine Learning for Biomedical Research, LS, (BSC), Mercè Crosas, Head of Computational Social Sciences (BSC)

Materials

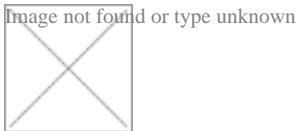


The relevant materials will be made available to the participants during the course.

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Further information



BSC Training Courses do not charge fees.

You can send us an e mail to education [at] bsc [dot] es 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](#).

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Source URL (retrieved on 17 Oct 2024 - 08:21): <https://www.bsc.es/es/education/training/bsc-training/bsc-training-course-introduction-big-data-analytics>