

Interdisciplinary Lectures in Data Science

December 6, 2018

Ore 15 - Aula Caianiello – Dipartimento di Fisica Ettore Pancini

Prof. A. Picariello

Multimedia Big Data Management and Processing at UNINA.

Research and Open Issues

The lecture will be introduced by the Rector of the University Federico II

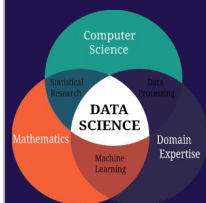
Prof. Gaetano Manfredi



Antonio Picariello is Full Professor of Computer Engineering at the University Federico II of Napoli and is an expert on Multimedia Data Base, Big Data & Analytics, On Line Social Networks. He is the Director of the National Lab on Information Technologies and Multimedia (ITEM) of the Italian Consortium on Computer Science and Engineering (CINI).

ABSTRACT

Nowadays, the volume of data produced in the world is humongous and largely exceeds the reach of commonly used hardware environments and software tools (i. e. data base) to capture, manage and process it in a tolerable time. This is true for a large number of application domains, such as particle physics and astronomy, with their exa-scale data volumes, life sciences with low-cost genome sequencing and advanced imaging technologies, or internet of things and online social networks, just to make few examples. All this, is pushing forward the limits of conventional data storage, processing and analysis. In addition, Big Data is also complex and heterogeneous, naturally based on multimedia sources, offering a chance to extract and produce new useful knowledge in all aspects of the human endeavour. In this lecture, research topics on novel data models, computational architectures for big data and analytics @UNINA - DIETI will be presented, showing problems & solutions of infrastructures useful for Data Engineers and Data Scientists.



The **DATA SCIENCE INITIATIVE** – datascience@fisica.unina.it

In 2019 the University Federico II in Naples will launch a new master program in Data Science. The **Data Science Initiative** aims at establishing new collaborations and synergies among different departments, universities and companies in the field of data science. By bringing together all the different expertises existing Campania, the DSI aims at becoming a reference for the society, the PA and the companies.