**Cloud Computing and Big Data : current state and opportunities**

**Abstract**:

Cloud computing, based initially on research areas such as HPC, virtualization, utility computing and grid computing, has developed its own paradigms, models and characteristics which let him widely adopted and developed as the essential future computing model. At the same time, recent years show a never seen before increase in our ability to collect huge amount of data in different formats, from applications from which social networking, devices such as mobile phones and sensors. Collected data has outpaced our capability to process, analyze, store and understand them in effective way, innovative forms of information processing for enhancement and decision making. This presentation will develop the current state of these computing and data processing models and the related opportunities.