



**Seminars organized by the DICA Scientific Commission
VII cycle – Academic Year 2019/20**

Thursday, June 18, 2020

[Microsoft Teams](#), 11.00 a.m.

Carlo De Gaetani

An overview on the BIM approach: key concepts and applications

BIM is a process that begins with the creation of an intelligent 3D model and enables document management, coordination and simulation during the entire life cycle of a project. Every detail of a building is modelled in BIM. The model can be used for analysis to explore design options and to create visualizations that help stakeholders understand what the building will look like before it is built. The model is then used to generate the design documentation for construction. The process of BIM supports the creation of intelligent data that can be used throughout the lifecycle of a building or infrastructure project. BIM not only allows design and construction teams to work more efficiently, but it allows them to capture the data they create during the process to benefit operations and maintenance activities. This seminar aims at providing the basic concepts which the BIM approach is based on. Throughout the discussion, the key points, benefits and challenges will be clarified. In addition, examples of investigations and researches carried out in this field will be presented, with the purpose of opening a discussion on possible future developments.