



**Politecnico
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Honor Thesis

Master of Science in Architecture Construction City

Abstract

**Digital reconstructive modeling of the provisional hall of the First Italian Parliament
in Palazzo Carignano**

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This research presents a reconstructive digital modeling study, with relative augmented and virtual reality prototyping, of the provisional hall of the First Italian Parliament located in the court of Palazzo Carignano in Turin. The study deals with a building that no longer exists, a part of that demolished heritage that remains only in the documents, in the archive drawings and in the studies of historians and researchers that were carried out in subsequent periods. Through the use of digital modeling it was possible to understand and communicate in a clear and simple way the composition and structure of the object of study. This intervention methodology is considered as a new approach compared to the past, an attempt to merge traditional and digital methods. The building built by Amedeo Peyron, architect and engineer specializing in railways, was designed and built in just three months at the end of 1860 as an extension for the seat of the Chamber of Deputies of the Subalpine Parliament which needed new spaces, given the limited capacity it had. up to that moment inside the Hall on the noble floor of the building designed by Guarini. The research that led to the creation of a three-dimensional model and started through a process of analysis and study of historical documents, consisting of both descriptive sources and different drawings, both perspective views of the interior of the classroom and plants and sections probably reproduced on the basis of the original project documents. The semicircular classroom made of wood, iron and glass? inside the courtyard of the seventeenth-century C building? it was used only for a few years; the new state dynamics led in the first instance to the change of capital and following the demolition of the Peyron building in favor of an overturning of the Guarignano building and closure of the court. The documentation relating to this provisional classroom and the identification of some architectural and furnishing components of that period allow us to create a reconstructive digital model and make explicit an architectural and symbolic heritage of a particular historical period of our country. The digital modeling project was based on plans, sections and perspective drawings with which we related to validate and motivate the reconstruction choices on data that are not always clear or reliable, such as views created even for simple celebratory purposes that enhance characteristics architectural not really implemented. The type and graphic specificities of the sources influenced the degree of accuracy of the reconstruction.







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