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BOOK OF ABSTRACTS

Digitalizzare, ricostruire e fruire il Castello di Montorio. Un tassello nella definizione della rotta culturale dei castelli scaligeri

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Abstract

Between the mid-13th and late 14th centuries the Scaliger lordship ruled a vast territory in which Verona was the main center. The Scaliger period is reflected in the extraordinary architecture and military constructions, castles and palaces that define the territory and are today important tourist sites. To initiate a digital cultural route to link and promote these architectural evidences, the Tourism Department, the Chamber of Commerce and the UNESCO Office of the Municipality of Verona, involved the laboratory DAda-LAB of the University of Pavia. The aim of the project was to design a new educational/informative digital route on the castles around the region. The present paper illustrates some outcomes of the research conducted on the Montorio Castle: the goal was testing a strategy of fast acquisition in order to obtain a digital database. The output of the acquisition phase was define as a reliable base to structure realistic 3D models of the main historical phases that affected the Castle. In this way, fast survey actions followed by the elaboration of 3D models by videogrammetry techniques, were also supplemented with the analysis of archival documents, archaeological reports and historical cartography. From the obtained photogrammetric database, it was then possible through the philological process to elaborate 3D models of the main hypothetical developments of the castle. This paper illustrates the strategy adopted in the case study and provides the groundwork for its replicability on other Scaliger castles, in order to define graphic and communicative methods for the digital products.

Keywords: Scaliger castles, videogrammetry, 3D reconstruction, Castle of Montorio Veronese.