

The Chapel in the Park at Pratolino: Survey of the Dome and the Prince's Dreamscape Complex

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Abstract This paper develops the work made by participants of the Postgraduate Course in Geomatics for Cultural Heritage Conservation (dir. Prof. Grazia Tucci), held by DiCR – Department of Construction and Restoration of University of Florence between January and April 2010.

Survey project was briefed to make as effective as possible the use of different acquisition and 3D data processing techniques: a topographic survey to build a common co-ordinate frame (using total station and GPS), range-maps acquisition with a phase-based laser scanner and digital photos.

The Pratolino park, designed by Bernardo Buontalenti for the Grand Duke Francesco I. Starting from building geometry, this paper intends to contribute about the role of the Chapel in Buontalenti's research on domes and central-plan buildings and to deepen its ambiguous role into the complex symbolism of Pratolino.

Keywords Geomatics, Pratolino, Buontalenti.