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Arch. Sandro Parrinello (PhD in European Science of Surveying and Representation of Architecture and Environment) is Assistant Professor at the Department of Civil Engineering and Architecture of the University of Pavia and the Scientific Coordinator of the inter-university Laboratory for "Landscape Survey & Design" (University of Florence and Pavia). He taught in Cuba from 2005 to 2010. Since 2012 he is Visiting Professor at the National Research Polytechnic University of Perm (Russia). His main research interest is in drawing and studying urban landscapes, 3D survey and preservation of historical heritage: he carried out fieldwork in Cuba, Mexico, Panama, and Brazil, organized several international conferences on "heritage documentation", and coordinated a EU project to study the wooden architecture of Northern Russia (2011-2014).

3D Architectural Survey and 3D Modelling of Historic Architecture

3D architectural survey and 3D modelling are changing the approach that architects have with "drawing" as a "selective" tool to investigate heritage buildings and sites for all purposes related to restoration, conservation, reuse, enhancement, etc. But scholarly research, in order to fully take advantage of these digital tools in architectural drawing and survey, needs to restate and redefine the qualifying aspects of historic architecture (i.e. its digital ontology, as proposed by Nanetti and Cheong in their 2013 Kyoto paper). Today, both research methodologies and information management are deeply affected by digital tools, which not simply produce multidimensional simulacra of the real monuments but mainly reconfigure the relationship between drawer, image, and user/observer (of the image itself). This paper presents case studies of different architectural scale, from the monument to the territory, which allow comparing methodologies for the management of the historic city and the enhancement of archaeological sites in the digital era.