

ABSTRACT

THESIS: Analysis of the Application of Digital Photogrammetry in Historic Building Documentation

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This paper presents a comprehensive overview of the development of photogrammetry as a tool within the field of historic preservation and building documentation and has presented an analysis assessing the applications of digital photogrammetry in building documentation. The application of digital photogrammetric technology was assessed by gauging the application of the technology on three historic buildings of differing scales and complexities. The main goal of the research was to merge in a unique product data derived from digital close-range photogrammetry in such a way that the final model could be seamlessly explored and interpreted similarly to traditional field documentation. A proper documentation and digital modeling procedure was developed in order to better exploit the surveying capabilities applied through photogrammetric techniques. The results were then analyzed and used to produce an assessment of the perceived advantages and disadvantages in the application of the technology with historic building documentation.