

Virtual 3D Reconstruction of the Orthodox Cathedral of the Holy Trinity in Mostar

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Abstract – *Destroyed during the war, the Orthodox Cathedral of the Holy Trinity in Mostar is not reconstructed yet. The aim of our project is a recreation of the largest orthodox cathedral in BH, its reconstruction in virtual 3D mode applying computer graphics techniques. The implementation process of this project encompasses a information gathering, modeling the outside and the inside of the cathedral, visualization through Radiance and Maxwell renderers, comparison of these techniques, and in the end, web implementation of the project through a web-site with the additional information on the cathedral. This project will allow virtual visit to the Orthodox Cathedral of the Holy Trinity in Mostar, a virtual tour of its outside and inside, and learning more on the church history. The most important aspect of this project is the endeavor of the virtual reconstruction and preservation of the Orthodox Cathedral of the Holy Trinity in Mostar as a Bosnian and Herzegovinian religious and cultural-historical heritage. The progress of the project and the information on further plans of the project are specified throughout the work.*