Abstract: 3D Preservation of the Berlin Brandenburg Gate

There are numerous hazards to cultural heritage around the world, among which we highlight natural disasters, human conflicts, and even the daily deterioration for many monuments. Digital preservation through 3D modeling of cultural heritage enables us to ensure the knowledge and access for future generations.

In August 2015, the CyArk Foundation, Oakland, CA and the Institute for Photogrammetry, University of Stuttgart cooperated in a project for the generation of a 3D model of the Berlin Brandenburg Gate, Germany, using different data collection methods: terrestrial laser scanning and close range photogrammetry.

The experiment performed has allowed to draw some conclusions, giving a competitive edge for photogrammetric techniques. Thus, photogrammetry can be considered a feasible alternative to terrestrial laser scanning for this type of 3D digital preservation of cultural heritage objects.