



Reconstructing the Medieval Architecture through

Recreating three of the Romanic Churches from the South of Transylvania using Virtual Reality Technology

Case studies at Cisnadioara, Orastie and Sura Mica Churches

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The Romanic churches from Cisnadioara, Sura Mica and Orastie are located in south of Transylvania, on the crown land, being built by the German settlers in the 12th – 13th century. These three churches represent 3 Romanic monuments different from the planametrical point of view and in the same time the most representative and typical Romanic Churches for the south of Transylvania (rotunda, short basilica and the basilicas with an ampler longitudinal development).

Here, we attempt to present a 3D computer reconstruction of the rotunda from Orastie, the short basilica from Cisnadioara and the Romanic basilica from Sura Mica.

The goal of the virtual reconstruction of the Romanic churches then the animation of the model is to provide many possibilities in re-examining the building and to be observed from different angels, “flying” in time and space throughout the medieval monument, and to offer a better understanding of a sequence of the transformation and the changes of the monument during the centuries.



[A 3D reconstruction of the Romanic church from Cisnadioara and its fortification](#)



Proposal of a virtual reconstruction of the Romanic inside of the church from Sura Mica.



[Proposal of the 3D reconstruction of the fortification from Orastie about the year 1150.](#)



[Proposal of the virtual reconstruction of the Romanic rotunda from Orastie \(the first part of the 12th century\).](#)

