



Monitoring of Corrosion in Fairy Chimney by Terrestrial Laser Scanning

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Abstract: Fairy Chimneys is only a riches of natural and cultural of world and is generally founded in Cappadocia Region of Turkey. Fairy Chimneys have a fairly important worth in point of historical and touristic. When geographic events have formed to fairy chimneys in historical period mankind built house and church inside of fairy chimneys. Mankind decorated these church and house with fresco. Mankind reached to these days more thousand civilization. Ago 60 billion years, region has been formed from softlayers, which being constituted from lava and ash spewed out by Erciyes, Hasan Mountain and Güllü Mountain, abraded by rain and wind along billion years. Faity chimneys have been constituted and disappeared by natural effects. In this study, deformation in a fairy chimney, which is located in Selime district of Aksaray province that is west door of Cappadocia region, has been investigated. Fairy chimney has been modelled as three dimensional by terrestrial laser scanning method in three periods. Volumes of fairy chimney have been computed from the same reference surface in every period. It was determined that deformation being or not from volume difference.

Keywords: Fair chimney, Cappadocia, Terrestrial Laser Scanning, Deformation

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