

Exploring the integration of Civil Engineering and Geomatics on Eastern Mediterranean Region build environment using monitoring

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Civil Engineers investigating the detrimental factors that deteriorate the build environment encounter a lack of insight or modelling of such mechanisms and factors. It is generally accepted that despite considerable research in this field, there is still lack of understanding of the factors involved and tools to identify and prevent the deterioration problems.

This study aims to explore the integration of Civil Engineering and Geomatics in the build environment. Critical problems in Civil Engineering such as corrosion of the steel reinforcement can be resolved with the development of new methodologies incorporating tools from Geomatics such as thermal imaging, Unmanned Aerial Vehicles (UAVs), GIS data etc. that will contribute to the alleviation of deterioration through early identification and intervention in a more effective integrated approach.