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# Recent advances of geoinformatics in eastern Mediterranean for cultural resource management

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## Résumé

Geoinformatics have given a new dimension and perspective in the domain of archaeological research. The high resolution geophysical mapping using motorized instrumentation, the innovative satellite recording systems of high spectral and spatial resolution, the use of Geographical Positioning Systems and the improved processing systems of digital images provide great possibilities in extracting spatial and temporal attributes from the archaeological sites. The use of three dimensional (3-D) modeling and virtual reality methods aim in the monument representation and the reconstruction of the surrounding environment of the archaeological sites. The combination of the above information within GIS platforms with other data bases coming from archaeological investigations, environmental information and social-economic models provide valuable results regarding the land use during the ancient times. Integrated applications from different archaeological sites in eastern Mediterranean show the capabilities of geoinformatics and 3-D modeling in cultural resources management.

**Mots-Clés:** GIS, 3, D modeling, cultural resources management, geoinformatics

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