

Assessing the Values and Destruction Degree of Archaeological Sites in Taiwan

Authors : Yung-Chung Chuang

Abstract : Current situation and accumulated development of archaeological sites have very high impacts on the preservation value of the site. This research set 3 archaeological sites in Taiwan as study areas. Assessment of the degree of destruction of cultural layers due to land use change and geomorphological change were conducted with aerial photographs (1976-1978; 2016-2017) and digital aerial survey technology on 2D and 3D geographic information system platforms. The results showed that the archaeological sites were all seriously influenced due to the high land use intensity between 1976-2017. Geomorphological changes caused by human cultivation and engineering construction were main causes of site destruction, especially in private lands. Therefore, urban planning methods for land acquisition or land regulation are necessary.

Keywords : archaeological sites, accumulated development, destruction of cultural layers, geomorphological changes

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