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Heritage Sites in Digital Age: New Pathways to Sustain Cultural Identity

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Abstract. Heritage sites are essential as they represent the natural and cultural heritage of the world, promoting identity and contributing to education. To ensure that future generations connect with their past, heritage preservation is essential for safeguarding societies' historical identity and traditions. However, with the current digital age where technology has a prominent role in modern society, its integration into preservation efforts has become crucial. By bridging the gap between tradition and innovation, a harmonious balance can be achieved, allowing technological advancements to thrive while ensuring the preservation of rich cultural identities. This research aims to investigate preservation techniques, with a specific focus on technological preservation for heritage sites. To achieve this aim, research methodology consisting of qualitative and quantitative data of previously published literature, a conducted survey questionnaire and analysis of case studies was used to attain three objectives. Firstly, to establish a research foundation on the topic including the types of preservation strategies and the role of advanced technology in enhancing preservation of cultural heritage sites. Secondly, to validate the significance using technological preservation in heritage sites, through a survey questionnaire. Lastly, analyse two case studies of heritage sites that have implemented advanced technologies to safeguarding heritage sites. As a result, a framework was developed to guide the integration of technological tools into the preservation of cultural heritage sites in Egypt.

Keywords: Heritage Sites, Preservation, Digital Age, Future Generations.