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Digital Memories: The Role of AI in Reviving and Remembering Holocaust-Survivors

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The use of holograms in museums, particularly those featuring witnesses and survivors of the Holocaust, sheds light on the advancing fusion of history and technology. In this context, artificial intelligence (AI) plays a crucial role, the potential and applications of which must be further explored. The aim of this paper is therefore to demonstrate and analyse the extent to which AI is already being used and can be further developed to reproduce first-hand witness accounts oh Holocaust survivors, thus making a significant contribution to the culture of remembrance. Through the integration of AI technologies, holographic representations can be made more authentic, vivid, and interactive, providing visitors with an immersive experience, and fostering a deeper understanding of the atrocities of the Shoah.

The paper first examines the current applications of AI in hologram museums, identifying challenges such as the authenticity of voices and personalities as well as ethical concerns regarding sensitive content. Subsequently, potentials and limitations of current technologies are discussed, and opportunities for future research and development are highlighted. A focus is placed on the advancement of AI algorithms for improved reconstruction of witness accounts and the integration of interactive features that enable visitors to interact with the holograms and ask questions. Additionally, the paper explores the potential for AI-driven holograms to adapt to the evolving educational needs of different audiences. Finally, the social and cultural impacts of broader application of these technologies on remembrance culture and Holocaust education are discussed. This work thus contributes to exploring and shaping new ways of preserving history and conveying historical knowledge.

Keywords: AI, Holocaust, Shoah, hologram, remembrance culture

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E-mail / E-posta

habib.tekin@marmara.edu.tr

ORCID ID

0000-0002-2650-8801

Institution / Affiliation / Kurum

Marmara University, Faculty of Humanities and Social Sciences, Department of German Language and Literature

Country / Ülke

Turkey

Başlıca yazarlar::   Habib Tekin (Marmara University)

Sunu yapanlar: Habib Tekin (Marmara University)

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