

Stella Sylaiou, Ph.D. [Personal Website](#)

Assistant Professor in Photogrammetric Production, Virtual and Augmented Reality
International Hellenic University | Department of Surveying and Geoinformatics
Engineering

Research Focus

Dr. Sylaiou specializes in **virtual heritage, digital museology, 3D documentation of cultural heritage, and immersive technologies** (XR, VR/AR). Her interdisciplinary work bridges geospatial engineering, digital humanities, and computational tools to advance cultural heritage preservation, storytelling, and public engagement.

Key Contributions

- **Project Leadership:** Since 2003, she has led or contributed to **25+ European and Greek research projects**, focusing on:
 - Virtual exhibitions and metaverse applications for cultural heritage.
 - Affective narratives using avatars and virtual humans in museums.
 - XR platform comparisons for art curation and digital exhibitions.
- **Editorial Roles:**
 - *Guest Editor: Journal on Personal and Ubiquitous Computing* (Springer Nature).
 - *Associate Editor: ACM Journal of Computing in Cultural Heritage.*
- **Publications:**
 - Authored **33 journal articles, 60+ conference papers, 13 book chapters, and 3 books.**
 - Selected publications:
 1. Sylaiou, S., Dafiotis, P., Antoniou, A., Pavlidis, G., & Evangelidis, K. (2025). Unlocking digital heritage: Insights into older adults' engagement with XR. *Heritage*, 8(5), Article 146. <https://doi.org/10.3390/heritage8050146>
 2. Dafiotis, P., Sylaiou S., Stylianidis, E., Koukopoulos, D., Fidas, Ch. Evaluating Uses of XR in Fostering Art Students' Learning. *Heritage*, 2025. (DOI:10.3390/mti9040036)
 3. Sylaiou S., Dafiotis, P., Antoniou, A., Pavlidis, G., Evangelidis, K. Unlocking Digital Heritage: Insights into Older Adults' Engagement with XR. *Heritage*, 2025. (DOI:10.3390/heritage8050146)
 4. Antoniou A., Vassilakis C., Kantianis G., Sylaiou S., Kolokithas G. Virtual cultural experiences for the elderly: formative studies and first findings regarding cultural content. *Applied Sciences*, 2025.
 5. Sylaiou, S., Evangelidis K., Tsifodimou Z.-E., Stamou A., Tavantzis I., Skondras A., Stylianidis E. Redefining Archaeological Research: Digital Tools, Challenges, and Integration in Advancing Methods. *Applied Sciences*, 2025.
 6. Sylaiou, S., Dafiotis, P., Koukopoulos, D., Koukoulis, Chr., Vital, R., Antoniou, A., & Fidas, Chr. (2024). From physical to virtual art exhibitions and beyond: Survey and some issues for consideration for the metaverse. *Journal of Cultural Heritage* (Vol. 66, pp. 86–98). Elsevier BV. <https://doi.org/10.1016/j.culher.2023.11.002>
 7. Vital, R., Sylaiou S., Koukopoulos, D., Koukoulis, Chr., Fidas, Chr. Comparison of Extended Reality Platforms and Tools for Viewing and Exhibiting Art, *Digital Applications in Archaeology and Cultural Heritage*. 2023