



IASIS: 3-D Digital rendering and web database development for part of the city of Ioannina during the Byzantine and Post-Byzantine/Ottoman period
Post Doctoral Research Project N.T.U.A. - S.R.S.G.E.
Dr. Athina Chroni,
Archaeologist N.K.U.A. - MSc UNI.PI. - PhD N.T.U.A. - Post Doctoral Research Associate N.T.U.A.



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IASIS Postdoctoral Research Project - Publications*

1. Chroni, A.: *Digital Humanities for A Holistic Cultural and Natural Heritage Remote Management Model*. Proceedings of the European Space Agency LIVING PLANET SYMPOSIUM (ESA LPS25)-"From Observation to Climate Action and Sustainability for Earth", June 23-27, 2025, Vienna, Austria, <https://lps25.esa.int/#location-contacts> [Under publication: European Space Agency (ESA)]
2. Chroni, A.: *Digital humanities for preserving cultural heritage*. Proceedings of the 4th International Conference TMM-CH: "Transdisciplinary Multispectral Modelling and Cooperation for the Preservation of Cultural Heritage, Addressing World Challenges", April, 7-9, Athens, Greece, 2024, <https://www.tmm-ch.com/> [Under publication: Springer Nature Switzerland]
3. Chroni, A. & Georgopoulos, A.: *New Aspects for Building Archaeology: IASIS for the SE Citadel of Ioannina Castle, Greece*. Proceedings of the 4th International Conference TMM-CH: "Transdisciplinary Multispectral Modelling and Cooperation for the Preservation of Cultural Heritage, Addressing World Challenges", April, 7-9, Athens, Greece, 2024, <https://www.tmm-ch.com/> [Under publication: Springer Nature Switzerland]
4. Chroni, A.: *Archaeoinformatics: Approaches to natural and urban landscape for documenting and recovering cultural memory*. IEEE-International Geoscience and Remote Sensing Symposium "Acting for Sustainability and Resilience", July 7-12, 2024, Session WE4.R3.1 - July 10 / 17:20 - 19:00, Athens, Date of Conference: 07-12 July 2024, Date Added to IEEE Xplore: 05 September 2024, Electronic ISBN:979-8-3503-6032-5, USB ISBN:979-8-3503-6031-8, Print on Demand (PoD) ISBN:979-8-3503-6033-2, DOI: 10.1109/IGARSS53475.2024.10641433, Publisher: IEEE, <https://ieeexplore.ieee.org/document/10641433>; https://2024.ieeeigarss.org/view_session.php?SessionID=1031; <https://2024.ieeeigarss.org/proceedings.php>
5. Chroni, A.: *Hagia Paraskevi Byzantine Monastery-Namaz Giyah Muslim Mosque-Perifereia Ioanninon Hellenic State Administrative Building (former Nomarchia*

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- Ioanninon*): a multiple landmark-witness of the multicultural physiognomy of Ioannina. In the Epirotic Diary, Volume MA', pp. 223-295, Edited by the Society of Epirotic Studies, Ioannina, Greece, 2023, ISSN 1105-4875.
6. Chroni, A., Georgopoulos, A. & Megalooikonomou P.S.: *Crowdsourcing for 3D Digital modelling: Ioannina city-Chairedin Pasha Sarai case study*. Proceedings of the 3rd International Conference TMM-CH: Transdisciplinary Multispectral Modelling and Cooperation for the Preservation of Cultural Heritage-Recapturing the World in Conflict through Culture, promoting mutual understanding and Peace, March, 20-23, Eugenides Foundation, Athens, Greece, 2023, <https://www.tmm-ch.com/>, Editors Antonia Moropoulou, Andreas Georgopoulos, Marinos Ioannides, Anastasios Doulamis, Kyriakos Lampropoulos & Alfredo Ronchi, pp 157–170, Springer Nature Switzerland AG 2023, Softcover ISBN 978-3-031-42299-7, eBook ISBN 978-3-031-42300-0, Series ISSN 1865-0929, Series E-ISSN 1865-0937, <https://link.springer.com/book/9783031423017>
 7. Chroni, A. & Georgopoulos, A.: *Reflections of the Tanzimat Reforms on the urban fabric*. Archaeological Institute of America 124th AIA-SCS Joint Annual Meeting, January 5-8, 2023, New Orleans, Louisiana, U.S.A., <https://www.archaeological.org/programs/professionals/annual-meeting/> [Under publication: AIA Publishing]
 8. Chroni, A. & Georgopoulos, A.: *Perceptions of cultural heritage in post-covid times: IASIS integrated CH management system case study*. 28th Annual Meeting of the European Association of Archaeologists-[RE]INTEGRATION, August, 31-September, 3, Budapest, 2022, <https://www.e-a-a.org/EAA2022/Home/EAA2022/Home.aspx?hkey=d8ca19c5-8cdc-4d80-a1ed-cda328b34274> [Under publication: European Association of Archaeologists' THEMES in Contemporary Archaeology book series]
 9. Chroni, A. & Georgopoulos, A.: *Rediscovering the urban web: Kahal Kadosh Hadash Synagogue, Ioannina, Greece*. Archaeological Institute of America 123rd AIA-SCS Joint Annual Meeting, January 5-8, 2022, San Francisco, U.S.A., <https://www.archaeological.org/programs/professionals/annual-meeting/> [Under publication: AIA Publishing]
 10. Chroni, A. & Georgopoulos, A.: *Documentation of Historic Buildings for their 3D Reconstruction in a Digital Cultural Heritage Management System*. 2nd International Conference TMM-CH, Transdisciplinary Multispectral Modelling and Cooperation for the Preservation of Cultural Heritage Rebranding the World in Crisis through Culture, December, 12-15, 2021, Eugenides Foundation Athens, Greece, in Technical Annals-International Scientific Journal in Advances in Engineering, Special Issue Editors: Moropoulou A., Doukas H., Ioannidis Ch., Avgerinou-Kolonia S., Lampropoulos K., Vol. 1, No. 1, Technical Chamber of Greece, Athens, 2022, pp. 1-12, Online ISSN: 2945-0330, <https://ejournals.epublishing.ekt.gr/index.php/ta/issue/view/1823>
 11. Chroni, A. & Georgopoulos, A.: *IASIS-Integrated Cultural Heritage Management System: A Christian Monastery, a Muslim Mosque and a Contemporary State Administrative Building, Ioannina: Digital Approach*. In: Moropoulou, A., Georgopoulos, A., Doulamis, A., Ioannides, M., Ronchi, A. (eds) Transdisciplinary

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12. Chroni, A. & Georgopoulos, A.: *GIS and 3D digital modelling for tracing and figuring out urban cultural components: Ioannina city case study*. Proceedings of the 4th Conference of the Greek Chapter of the Computer Applications and Quantitative Methods in Archaeology (CAA-GR) - October 21-22, 2021 - "Big Data in Archaeology", Edited by Anno Hein, Institute for Nanoscience and Nanotechnology-N.C.S.R. "Demokritos", Athens 2024, pp 13-20, ISBN 978-618-81045-3-2, Greece, <http://caa-gr2020.net/>; https://gr.caa-international.org/wp-content/uploads/sites/26/2024/06/CAA-GR-Proc-2021-final_compressed.pdf
 13. Chroni, A. & Georgopoulos, A.: *Ioannina 1430-1913: linking the tangible to the intangible. Integrated system for remotely managing and accessing cultural heritage*. 27th Annual Meeting of the European Association of Archaeologists-Widening Horizons Proceedings, September 8-11, 2021, Kiel, Germany, (2021), <https://www.e-a-a.org/EAA2021/Home/EAA2021/Home.aspx?hkey=12668d95-ebcf-45ef-9c7f-1405571fe0b5>
[Under publication: European Association of Archaeologists' THEMES in Contemporary Archaeology book series]
 14. Chroni, A. & Georgopoulos, A.: *The city of Ioannina during the Ottoman period: a 3D digital approach*. Archaeological Institute of America 122nd AIA-SCS Joint Annual Meeting, January 5-10, 2021, Chicago, U.S.A., (2021), <https://www.archaeological.org/programs/professionals/annual-meeting/>
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 15. Chroni, A. & Georgopoulos, A.: *Documentation and 3D Digital Modelling: The Case of a Byzantine Christian Temple and an Ottoman Muslim Mosque in Ioannina City, Greece*. Proceedings of the 8th International Euro-Mediterranean Conference-EuroMed 2020 on Digital Heritage: Progress in Cultural Heritage. Documentation, Preservation, and Protection, November 2-5, 2020, Nicosia, Cyprus, Editors M. Ioannides et al., ©Springer Nature Switzerland, (2021), <http://www.euromed2020.eu/> .
http://www.euromed2020.eu/application/files/5516/0410/5227/Euromed2020_BO_OKLET_Draft_V2_30_10_2020.pdf .
<https://www.springer.com/us/book/9783030730420>
 16. Chroni, A. & Georgopoulos, A.: *Integrated Cultural Heritage Management: 3-D Digital rendering and web data base development for part of the city of Ioannina during the Ottoman period*. 26th EAA Annual Meeting in Budapest, European Association of Archaeologists, August, 26-30, 2020, Budapest, Hungary, <https://www.e-a-a.org/EAA2020/Home/EAA2020/Home.aspx?hkey=2913d798-bf0e-4a04-af62-1c28ba7bc0a1>
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17. Chroni, A.: *Ioannina: The Castle, the moat and the city. A three-dimensional digital approach towards the exploration of the urban web*. Proceedings of the 3rd Panhellenic Conference on Digitization of Cultural Heritage-Euromed 2019, September, 25-27, 2019, Cyprus University of Technology-Technological Educational Institute of Athens, University of West Attica-"Perreia" Network,, University of West Attica Conference Center, University Campus 2, Athens, Greece, pp. 372-381, <http://www.euromed-dch.eu/>; <http://www.euromed-dch.eu/wp-content/uploads/2020/11/%CE%A0%CE%A1%CE%91%CE%9A%CE%A4%CE%99%CE%9A%CE%91-2019-v5.pdf>
18. Chroni, A.: *The Greek Educational Institutions of Ioannina during the Ottoman period of the city*. Proceedings of the 1st International Conference "Ferekydes-Western culture and its Greek references", Syros Institute, Under the auspices of the Presidency of the Hellenic Republic, June, 7-9, 2019, Hermoupolis, Syros, Greece, <http://syrosinstitute.eu/diethnes-sinedrio-ferekidis/>
[Under publication: Syros Institute Publishing]
19. Chroni, A.: *The city of Ioannina during the Ottoman period-Digital representation of the western part of the castle wall*. Proceedings of the 3rd Panepirotic Conference titled "Epirus over time", The Society for Epirotic Studies/The Foundation for Ionian and Adriatic Studies, March, 1-3, 2019, Ioannina, Greece, http://www.ehm.gr/activities_2019.php#march_1_2019; http://www.ehm.gr/documents/prog_synedriou.pdf
[Under publication: The Society for Epirotic Studies/The Foundation for Ionian and Adriatic Studies Publishing]