1. Record Nr. UNINA9910629283803321

Titolo	Machu Picchu in Context : Interdisciplinary Approaches to the Study of Human Past / / edited by Mariusz Ziókowski, Nicola Masini, José M. Bastante
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2022
ISBN	3-030-92766-0
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (585 pages)
Disciplina	985.01
Soggetti	Human geography Cultural geography Archaeology Geographic information systems Latin America - History Geography Social and Cultural Geography Geographical Information System Latin American History Regional Geography
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Part 1: Context -- Chapter 1. Machu Picchu Physiographic and Environmental Settings -- Chapter 2. Geological Setting and Geomorphological Hazards in Machu Picchu Area -- Chapter 3. Machu Picchu in the Context of the Expansion of the Inca State: Between Historical and Radiocarbon Chronologies -- Chapter 4. Machu Picchu in Context: The Inca Building Culture -- Chapter 5. Astronomical Observations at Machu Picchu: Facts, Hypothesis and Wishful Thinking -- Part 2: Prospecting Machu Picchu and Urubamba valley: New Results from Earth Observations Sciences and Technologies -- Chapter 6. Open Big Earth Observation Data and Artificial Intelligence for the Study and Preservation of UNESCO Natural and Cultural Heritage: The Case of Machu Picchu -- Chapter 7. New Results from Archaeogeophysical

Investigations in Machu Picchu -- Chapter 8. Possibilities of Using LiDAR Systems in Architectural and Archaeological Research in the National Archaeological Park of Machu Picchu -- Chapter 9. In a Search for Standards in Inca Measuring System -- Chapter 10. Investigation at the Chachabamba Archaeological Monument -- Part 3: New results from Archaeological and Historical Investigations -- Chapter 11. Machu Picchu: Interdisciplinary Researches -- Chapter 12. The Phaqcha from Chachabamba -- Chapter 13. High Mountain Underwater Archaeology: Research in the Lakes at the Foot of Salkantay Mountain -- Chapter 14. Inca Road System within Machupicchu National Archaeological Park -- Chapter 15. Quillcas in the Historic Sanctuary-National Archaeological Park of Machupicchu, a New Line of Evidence for the Earliest Occupancy of the Lower Vilcanota Basin -- Chapter 16. Ethnohistorical Documents of Machu Picchu National Archaeological Park -- Chapter 17. Proof of Concept Chemical Studies of the Biodeterioration of Ancient Structures in Machu Picchu -- Chapter 18. In a Search for Inca Construction Process Logistics: Case Studies of Four Structures from the Llaqta Machu Picchu.

Sommario/riassunto

This book aims at integrating archaeology with science in order to provide additional information with respect to a traditional archaeological anthropological perspective. It sheds light on Incan culture, the relation between human frequentation and environmental changes, the Incan architecture in relation with Andean cosmovision using, for the first time, diverse technological and scientific approaches including LiDAR remote sensing, geophysics and radio carbon dating. A number of recent studies conducted by Polish, Italian and Peruvian scientific missions in Machu Picchu, Chachabamba and Cusco are presented and discussed. Chapter 5 is available open access under a Creative Commons Attribution-ShareAlike 4.0 International License via link.springer.com.