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| 1. Record Nr.           | UNINA9910583478403321  |
| Titolo                  | Human remains : another dimension : the application of imaging to the study of human remains // edited by David Errickson, Teesside University, Middlesbrough, United Kingdom, Tim Thompson, Teesside University, Middlesbrough, United Kingdom  |
| Pubbl/distr/stampa      | London : , : Academic Press, An imprint of Elsevier, , [2017]<br>2017  |
| Descrizione fisica      | 1 online resource (xii, 204 pages) : illustrations (some color)  |
| Collana                 | Gale eBooks  |
| Disciplina              | 930.1028   |
| Soggetti                | Human remains (Archaeology) - Imaging  |
| Lingua di pubblicazione | Inglese  |
| Formato                 | Materiale a stampa   |
| Livello bibliografico   | Monografia   |
| Nota di bibliografia    | Includes bibliographical references at the end of each chapters.   |
| Nota di contenuto       | ch. 1. Context / Tim Thompson -- ch. 2. The rot sets in : low-powered microscopic investigation of taphonomic changes to bone microstructure and its application to funerary contexts / Thomas Booth -- ch. 3. Human bone and dental histology in an archaeological context / Justyna J. Miszkiewicz and Patrick Mahoney -- ch. 4. "Cut to the bone" : the enhancement and analysis of skeletal trauma using scanning electron microscopy / Jenna M. Dittmar -- ch. 5. The role of radiography in disaster victim identification / Jacquie Vallis -- ch. 6. Recording in Situ human remains in three dimensions : applying digital image-based modeling / Priscilla F. Ulguim -- ch. 7. Shedding light on skeletal remains : the use of structured light scanning for 3D archiving / David Errickson -- ch. 8. The use of laser scanning for visualization and quantification of abrasion on water-submerged bone / Samuel J. Griffith and Charlotte E.L. Thompson -- ch. 9. Laser scanning of skeletal pathological conditions / Andrew S. Wilson, Andrew D. Holland and Tom Sparrow -- ch. 10. Virtual reconstruction of cranial remains : the H. Heidelbergensis, Kabwe 1 fossil / Ricardo M. Godinho and Paul O'Higgins -- ch. 11. Pediatric medicine : postmortem imagining in suspected child abuse / Mayonne van Wijk [and three others] -- ch. 12. The storage and long-term preservation of 3D data / Kieron Niven and Julian D. Richards -- ch. 13. Management of 3D image data / Summer |

Decker and Jonathan Ford -- ch. 14. Ethical considerations : an added dimension / Nicholas Marquez-Grant and David Errickson.

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Sommario/riassunto

This book brings together scattered literature on the topic, assimilating disparate pieces that relate to the novel use of non-invasive three-dimensional imaging techniques in the forensic context. Written by specialists in the field, it demonstrates the current use of 3D non-invasive imaging techniques using case studies. In addition, the advantages for using such methods, their current limitations, and possible solutions are also reviewed.

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