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Nota di contenuto	1. Introduction / John Counsell and Yusuf Arayici -- 2. It's DIM : but not as we know it! / John Edwards -- 3. What are the goals of HBIM? / John Counsell and Tim Taylor -- 4. Heritage and time : mapping what is not there / David Littlefield -- 5. From history to heritage : Viollet-le-Duc's concept on historic preservation / Khaled Dewidar -- 6. Integrating value map with building information modeling approach for documenting historic buildings in Egypt / Soheir Hawas and Mohamed Marzouk -- 7. Capturing heritage data with 3D laser scanners / Antony Pidduck -- 8. Evaluation of historic masonry : towards greater objectivity and efficiency / Enrique Valero. [and others] -- 9. HBIM applications in Egyptian heritage sites / Yasmine Sabry Hegazi -- 10.

Planning of sustainable bridges using building information modeling / Mohamed Marzouk and Mohamed Hisham -- 11. Jeddah Heritage Building Information Modelling (JHBIM) / Ahmad Baik and Jan Boehm -- 12. Algorithmic approaches to BIM modelling from reality / Ebenhaeser Joubert and Yusuf Arayici -- 13. HBIM and environmental simulation : possibilities and challenges / Husam Bakr Khalil -- 14. Green BIM in heritage building : integrating Building Energy Models (BEM) with Building Information Modeling (BIM) for sustainable retrofit of heritage buildings / Laila Khodeir -- 15. HBIM, a case study perspectives for building performance / Yusuf Arayici -- 16. From LiDAR data towards HBIM for energy analysis / LUCIA DIAZ-VILARINO,.. [and others] -- 17. Participatory sensing for community engagement with HBIM / John Counsell and Gehan Nagy -- 18. Development of OntEIR framework to support heritage clients / Shadan Dwairi and Lamine Mahdjoubi -- 19. Conclusion / Yusuf Arayici, John Counsell and Lamine Mahdjoubi.

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#### Sommario/riassunto

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This book aims to clearly define the scope for Heritage Building Information Modelling and present cutting edge research findings alongside international case studies, before outlining challenges for the future of HBIM research and practice.

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