1.	Record Nr.	UNINA9910483273103321
	Titolo	From building information modelling to mixed reality / / edited by Cecilia Bolognesi, Daniele Villa
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2021
	ISBN	3-030-49278-8
	Edizione	[1st edition 2021.]
	Descrizione fisica	1 online resource (X, 217 p. 125 illus., 108 illus. in color.)
	Collana	Springer Tracts in Civil Engineering , , 2366-259X
	Disciplina	720.0285
	Soggetti	Computer simulation Building Computer-aided engineering Virtual reality in architecture Cultural property Building Construction and Design Computer-Aided Engineering (CAD, CAE) and Design Cultural Heritage
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Includes index.
	Sommario/riassunto	This book reports on the latest advances in using BIM modelling to achieve the semantic enrichment of objects, allowing them to be used both as multidimensional databases – as comprehensive sources of information for finalizing various types of documentation in the building industry – and as modelling tools for the construction of virtual environments. Having advanced to a new stage of development, BIM modelling is now being applied in a range of increasingly complex contexts, and for various new purposes. This book examines the role that virtual reality and related technologies such as AI and IoT can play in preserving and disseminating our cultural heritage and built environment.