

1. Record Nr.	UNINA9910299929703321
Titolo	Informed Architecture : Computational Strategies in Architectural Design // edited by Marco Hemmerling, Luigi Cocchiarella
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-319-53135-2
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (XV, 193 p. 162 illus., 114 illus. in color.)
Disciplina	519
Soggetti	Applied mathematics Engineering mathematics Technical education Interior architecture Interiors Graphic design Mathematical and Computational Engineering Engineering/Technology Education Interior Architecture and Design Graphic Design Interaction Design
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Sommario/riassunto	This book connects the different topics and professions involved in information technology approaches to architectural design, ranging from computer-aided design, building information modeling and programming to simulation, digital representation, augmented and virtual reality, digital fabrication and physical computation. The contributions include experts' academic and practical experiences and findings in research and advanced applications, covering the fields of architecture, engineering, design and mathematics. What are the conditions, constraints and opportunities of this digital revolution for architecture? How do processes change and influence the result? What

does it mean for the collaboration and roles of the partners involved. And last but not least: how does academia reflect and shape this development and what does the future hold? Following the sequence of architectural production - from design to fabrication and construction up to the operation of buildings - the book discusses the impact of computational methods and technologies and its consequences for the education of future architects and designers. It offers detailed insights into the processes involved and considers them in the context of our technical, historical, social and cultural environment. Intended mainly for academic researchers, the book is also of interest to master's level students.
