1. Record Nr. UNINA9910337631403321

Titolo	Digital Wood Design : Innovative Techniques of Representation in Architectural Design / / edited by Fabio Bianconi, Marco Filippucci
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-030-03676-6
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource
Collana	Lecture Notes in Civil Engineering, , 2366-2557 ; ; 24
Disciplina	729 721.0448
Soggetti	Buildings—Design and construction Building Construction Engineering, Architectural Forest products Sustainable architecture Computer-aided engineering Building Construction and Design Wood Science & Technology Sustainable Architecture/Green Buildings Computer-Aided Engineering (CAD, CAE) and Design
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Integrated approach and generative design -- Centrality of representation as a synthesis model and morphological comprehension -- Connection between Nature lessons and material explorations -- Constructive wisdom and realization challenges -- Parametric transfigurations and morphological optimizations.
Sommario/riassunto	This book explores various digital representation strategies that could change the future of wooden architectures by blending tradition and innovation. Composed of 61 chapters, written by 153 authors hailing from 5 continents, 24 countries and 69 research centers, it addresses advanced digital modeling, with a particular focus on solutions

involving generative models and dynamic value, inherent to the relation between knowing how to draw and how to build. Thanks to the potential of computing, areas like parametric design and digital manufacturing are opening exciting new avenues for the future of construction. The book’s chapters are divided into five sections that connect digital wood design to integrated approaches and generative design; to model synthesis and morphological comprehension; to lessons learned from nature and material explorations; to constructive wisdom and implementation-related challenges; and to parametric transfigurations and morphological optimizations. .