1. Record Nr. UNINA9910299586203321

Titolo	Humanizing Digital Reality : Design Modelling Symposium Paris 2017 / / edited by Klaas De Rycke, Christoph Gengnagel, Olivier Baverel, Jane Burry, Caitlin Mueller, Minh Man Nguyen, Philippe Rahm, Mette Ramsgaard Thomsen
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2018
ISBN	981-10-6611-6
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (XXXI, 684 p. 484 illus., 402 illus. in color.)
Disciplina	690
Soggetti	Buildings - Design and construction Mechanics, Applied Solids Computer-aided engineering Energy policy Energy and state Building Construction and Design Solid Mechanics Computer-Aided Engineering (CAD, CAE) and Design Energy Policy, Economics and Management
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Data and Design: Using Knowledge Generation/Visual Analytic Paradigms to Understand Mobile Social Media in Urban Design -- This room is too dark and the shape is too long: quantifying architectural design to predict successful spaces -- The design implications of form-finding with dynamic topologies -- A Multi-Scalar Approach for the Modelling and Fabrication of Free-form Glue-laminated Timber Structures -- Stone Morphologies: Erosion-Based Digital Fabrication through Event-Driven Control -- Simulating pedestrian movement -- Automated Generation of Knit patterns for Non-developable surfaces -- Voxel Fields as data representations A Method for Flexible Data Sampling of CFD data sets -- Survey-based Simulation of User

Satisfaction for Generative Design in Architecture -- Design Tools and Workflows for Braided Structures -- Monolithic Earthen Shells Digital Fabrication: Hybrid Workflow -- A tool for optimizing conceptual mass design and orientation for rain water harvesting facades -- Assessment of RANS turbulence models in urban environments: CFD simulation of airflow around idealized high-rise morphologies -- Index.

Sommario/riassunto

This book aims at finding some answers to the questions: What is the influence of humans in controlling CAD and how much is human in control of its surroundings? How far does our reach as humans really go? Do the complex algorithms that we use for city planning nowadays live up to their expectations and do they offer enough quality? How much data do we have and can we control? Are today’s inventions reversing the humanly controlled algorithms into a space where humans are controlled by the algorithms? Are processing power, robots for the digital environment and construction in particular not only there to rediscover what we already knew and know or do they really bring us further into the fields of constructing and architecture? The chapter authors were invited speakers at the 6th Symposium "Design Modelling Symposium: Humanizing Digital Reality", which took place in Ensa-Versailles, France from 16 - 20 September 2017. .