

Springer

1st
edition1st ed. 2020, XVI, 400 p.
151 illus., 81 illus. in color.**Printed book**

Hardcover

Printed book

Hardcover

ISBN 978-3-030-33569-4

£ 44,99 | CHF 66,61 | 49,99 € |

54,99 € (A) | 53,49 € (D)

Available

Discount group

Standard (0)

Product category

Contributed volume

Series

Research for Development

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ISBN 978-3-030-33572-4

Softcover

ISBN 978-3-030-33571-7

Engineering : Building Construction and Design

Daniotti, B., Gianinetto, M., Della Torre, S. (Eds.)

Digital Transformation of the Design, Construction and Management Processes of the Built Environment

- Focus on the development of methods and ICT tools
- New methods for managing the specific stages of the building process
- Case studies of state of the art techniques for modeling at different scales

This open access book focuses on the development of methods, interoperable and integrated ICT tools, and survey techniques for optimal management of the building process. The construction sector is facing an increasing demand for major innovations in terms of digital dematerialization and technologies such as the Internet of Things, big data, advanced manufacturing, robotics, 3D printing, blockchain technologies and artificial intelligence. The demand for simplification and transparency in information management and for the rationalization and optimization of very fragmented and splintered processes is a key driver for digitization. The book describes the contribution of the ABC Department of the Polytechnic University of Milan (Politecnico di Milano) to R&D activities regarding methods and ICT tools for the interoperable management of the different phases of the building process, including design, construction, and management. Informative case studies complement the theoretical discussion. The book will be of interest to all stakeholders in the building process – owners, designers, constructors, and faculty managers – as well as the research sector.

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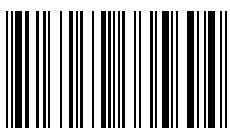
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