

1. Record Nr.	UNINA9910366609603321
Titolo	Design Tools and Methods in Industrial Engineering : Proceedings of the International Conference on Design Tools and Methods in Industrial Engineering, ADM 2019, September 9–10, 2019, Modena, Italy // edited by Caterina Rizzi, Angelo Oreste Andrisano, Francesco Leali, Francesco Gherardini, Fabio Pini, Alberto Vergnano
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-31154-6
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XXIII, 986 p. 593 illus., 522 illus. in color.)
Collana	Lecture Notes in Mechanical Engineering, , 2195-4364
Disciplina	620.0042 670
Soggetti	Engineering design User interfaces (Computer systems) Human-computer interaction Computer-aided engineering Engineering Design User Interfaces and Human Computer Interaction Computer-Aided Engineering (CAD, CAE) and Design
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Geometric Modelling and Analysis -- Industrial Design and Ergonomics -- Virtual Reality and Interactive Design -- Reverse Engineering, Digital Acquisition and Inspection -- Geometrical Product Specification and Tolerancing -- Design for Manufacturing and Assembly.
Sommario/riassunto	This book reports on cutting-edge design methods and tools in industrial engineering, advanced findings in mechanics and material science, and relevant technological applications. Topics span from geometric modelling tools to applications of virtual/augmented reality, from interactive design to ergonomics, human factors research and reverse engineering. Further topics include integrated design and optimization methods, as well as experimental validation techniques for product, processes and systems development, such as additive

manufacturing technologies. This book is based on the International Conference on Design Tools and Methods in Industrial Engineering, ADM 2019, held on September 9–10, 2019, in Modena, Italy, and organized by the Italian Association of Design Methods and Tools for Industrial Engineering, and the Department of Engineering “Enzo Ferrari” of the University of Modena and Reggio Emilia, Italy. It provides academics and professionals with a timely overview and extensive information on trends and technologies in industrial design and manufacturing.
