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Titolo	Advances in Manufacturing, Production Management and Process Control : Proceedings of the AHFE 2020 Virtual Conferences on Human Aspects of Advanced Manufacturing, Advanced Production Management and Process Control, and Additive Manufacturing, Modeling Systems and 3D Prototyping, July 16–20, 2020, USA // edited by Beata Mrugalska, Stefan Trzcielinski, Waldemar Karwowski, Massimo Di Nicolantonio, Emilio Rossi
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ISBN	3-030-51981-3
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (398 pages)
Collana	Advances in Intelligent Systems and Computing, , 2194-5357 ; ; 1216
Disciplina	670.42
Soggetti	Engineering economy Computer engineering Internet of things Embedded computer systems Engineering design Engineering Economics, Organization, Logistics, Marketing Cyber-physical systems, IoT Engineering Design
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	A research framework for human aspects in the internet of production – an intra-company perspective -- A detailed investigation of apparent and root causes of accidents in manufacturing -- A detailed investigation of apparent and root causes of accidents in manufacturing -- Management of intelligent autonomous environment in a context of competitive forces -- Professional competencies and research to offer integrated manufacturing systems -- Research on green efficiency of the life cycle of customized intelligent products.
Sommario/riassunto	This book discusses the latest advances in the broadly defined field of advanced manufacturing and process control. It reports on cutting-

edge strategies for sustainable production and product life cycle management, and on a variety of people-centered issues in the design, operation and management of manufacturing systems and processes. Further, it presents digital modeling systems and additive manufacturing technologies, including advanced applications for different purposes, and discusses in detail the implementation of and challenges imposed by 3D printing technologies. Based on three AHFE 2020 Conferences (the AHFE 2020 Virtual Conference on Human Aspects of Advanced Manufacturing, the AHFE 2020 Virtual Conference on Advanced Production Management and Process Control and the AHFE 2020 Virtual Conference on Additive Manufacturing, Modeling Systems and 3D Prototyping, the book merges ergonomics research, design applications, and up-to-date analyses of various engineering processes. It brings together experimental studies, theoretical methods and best practices, highlights future trends and suggests directions for further technological developments and the improved integration of technologies and humans in the manufacturing industry.
