1. Record Nr. UNINA9910806192703321 Autore Kumar Avadhesh Titolo Digital Transformation: Industry 4. 0 to Society 5. 0 Pubbl/distr/stampa Singapore: ,: Springer Singapore Pte. Limited, , 2024 ©2024 **ISBN** 981-9981-18-2 Edizione [1st ed.] Descrizione fisica 1 online resource (365 pages) Disruptive Technologies and Digital Transformations for Society 5. 0 Collana Series Altri autori (Persone) SagarShrddha ThangamuthuPoongodi BalamuruganB Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di contenuto Intro -- Preface -- Introduction -- Contents -- Editors and Contributors -- Abbreviations -- 1 Evolution of Industry 4.0 and Its Fundamental Characteristics -- 1 Introduction -- 1.1 Industry 4.0 Introduction -- 1.2 Industry 4.0 Definitions -- 1.3 Benefits of Industry 4.0 -- 1.4 Motivations Behind the Evolution of Industry 4.0 -- 2 Industry 4.0 Concepts, State of Arts, and Challenges -- 2.1 Basic Components of Industry 4.0 -- 2.2 Characteristics of Industry 4.0 --2.3 State of Arts -- 2.4 Conceptualizing the Fourth Industrial Revolution -- 2.5 Goals to Consummate Industry 4.0 -- 2.6 Drivers of Industry 4.0 -- 2.7 Implementation Challenges of Industry 4.0 -- 3 Methodologies in Industry 4.0 -- 3.1 Validating Technologies/Base Technologies of Industry 4.0 -- 3.2 Nine Technology Peers of Industry 4.0 -- 3.3 Architectural Design of Industry 4.0 -- 3.4 Artificial Intelligence in Industry 4.0 -- 3.5 Processes and Interaction in Industry 4.0 -- 4 Applications, Use Cases, and Projects of Industry 4.0 -- 4.1 Influence of 5G Technologies on Industry 4.0 -- 4.2 5G Tech Support for Industry 4.0 -- 4.3 Industry 4.0 Application Scenarios Accredited

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