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Nota di contenuto	Chapter 1: Introductory Chapter: Unlocking Digital Transformation of Agriculture -- Part 1: Promising Digital Technology for Agriculture -- Chapter 2: Advances in the Internet of Things for Sustainable Food Chains Operations and Food Security -- Chapter 3: Agro-digital Ecosystems in Agriculture 4.0 and FoodTech Initiatives: Perspectives from Russia -- Chapter 4: Cloud Technologies in the Accounting Information System of Interorganizational Cooperation -- Chapter 5: Information Support for Monitoring Emerging Threats to the Use of Land Resources in Agrifood Systems -- Chapter 6: The Digital Forecasting Platform for Liquidity Risk Management in Manufacturing -- Chapter 7: Digital Technology for Standardization, Certification, and Licensing to Ensure Quality in Agricultural Production -- Part 2: Digital Agrarian Economy -- Chapter 8: Strategic Priorities for Developing

Digital Economy in Russian Agriculture -- Chapter 9: Trends and Vectors of Sustainable Agriculture Development in Digital Economy -- Chapter 10: Critical Changes in the Agrifood Market Architecture Due to Information and Communication Technology -- Chapter 11: Enablers and Barriers of Digital Transformations Industry: A Study of Regional Development -- Chapter 12: Retail Trade in Digitalized Economy: Development Tendencies for Agro-industrial Enterprises in Russia -- Chapter 13: Complex Supply Modeling in Meat Industry: Quantitative Methods and Digital Solutions -- Chapter 14: Qualimetric Forecasting and Analysis of Consumer Requirements in Agricultural Markets -- Part 3: Technology-based Innovations in Agriculture -- Chapter 15: Innovation Systems, Industrial Enterprises, and Information and Communication Technologies: Literature Review and Applications for Agriculture -- Chapter 16: Digital Transformation as a Means of Smart Regulation of Environmental Management: Technology and Practices for Agrifood Companies -- Chapter 17: Innovative Development of the Russian Agricultural System Based on the Principles of Food Security -- Chapter 18: Critical Impacts of Advanced Technology in Certification of Vehicle Repair and Maintenance Facilities in Agrifood Systems -- Chapter 19: Promising Innovations for Green Economy and Cleaner Production in Agriculture -- Part 4: Fostering Digital Competitiveness and Sustainability in Agricultural Enterprises -- Chapter 20: Large Russian Agricultural Holding in Unstable Environments -- Chapter 21: Building More Sustainable Enterprises in Agriculture with Advanced Digital Technologies -- Chapter 22: Systems Perspectives on the Development of E-commerce Companies in Agriculture -- Chapter 23: Sources for Increasing Profitability in Agricultural Land Ownership for Sustainable Development of Regional Agro-Industrial Complexes -- Chapter 24: Agribusiness Development with Respect to Unstable Energy Markets: Modeling and Forecasting -- Part 5: Firm Governance -- Chapter 25: A Critical Review of Digital Solutions in Agribusiness Management -- Chapter 26: A Sustainable Development Model for an Agricultural Holding Based on Strategic Management and a Single Digital Platform for the Agro-industrial Complex -- Chapter 27: Synergy in Firm Governance for Increasing Competitiveness of Agro-industrial Enterprises -- Chapter 28: Accounting and Analytical Support in Integrated Reporting -- Chapter 29: Personnel Problems in Russian Digital Agriculture -- Chapter 30: Human Resource Development with Respect to Digital Challenges in Agriculture -- Chapter 31: Concluding chapter: Further Research Directions for Fostering Digital Transformation of Agriculture in Russia and Beyond. .

## Sommario/riassunto

This timely book collects the latest research on digital transformations unfolding in agriculture across the globe, with a special focus on Russia and the member countries of the Commonwealth of Independent States. The authors present a coherent framework for understanding the factors driving digital transformation of agriculture as a whole industry and agricultural enterprises in particular, through the prism of global trends, adoption opportunities, and barriers of economic digitalization and the ongoing transition to Industry 4.0. The volume serves as a unique source of cutting-edge research on the frontier digital technology available for agricultural enterprises, as well as it discusses predominant strategies, potential drivers of change, and responses to digital technology challenges faced by the industry. Such topics as intelligent systems, data analytics and machine learning, digital platforms, services and ecosystems, as well as the Internet of Things are extensively covered by the leading researchers, with numerous cases of industry technology applications. This volume makes a unique contribution to the study of digital technology

applications for building innovative agriculture, capturing critical trends and benchmarks in digital transformation of the whole industry. Due to its practical focus, the book appeals to practitioners and policymakers, not just academics. This is also a valuable resource for graduate students interested in digital technology advances, firm competitiveness, and sustainable innovation.

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