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Titolo	Digital Agriculture // edited by Daniel Marçal de Queiroz, Domingos Sárvio M. Valente, Francisco de Assis de Carvalho Pinto, Aluizio Borém, John K. Schueller
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ISBN	3-031-14533-X
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (306 pages)
Collana	Biomedical and Life Sciences Series
Disciplina	338.16
Soggetti	Agriculture Mechanical engineering Geographic information systems Computer simulation Mechanical Engineering Geographical Information System Computer Modelling
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Chapter 1 - The Agriculture Eras -- Chapter 2 - Global Navigation Satellite Systems -- Chapter 3 - Spatial and Temporal Variability Analysis -- Chapter 4 - Images and Remote Sensing Applied to Agricultural Management -- Chapter 5 - Geoprocessing Applied to Crop Management -- Chapter 6 - Sampling and Interpretation of Maps -- Chapter 7 - Agricultural Drones' Application -- Chapter 8 - Sensors and Actuators -- Chapter 9 - Control and Automation Systems in Agricultural Machinery -- Chapter 10 - Digital Irrigation -- Chapter 11 - Digital Livestock Farming -- Chapter 12 - Internet of Things In Agriculture -- Chapter 13 - Data transmission, cloud computing and Big Data -- Chapter 14 - Machine Learning -- Chapter 15 - Platforms, Applications and Software -- Chapter 16 - Digital Data: Cycle, Standardization, Quality, Sharing and Security -- Chapter 17 - Case Study: SLC Agrícola -- Index.
Sommario/riassunto	This textbook addresses the most recent advances and main digital

technologies used in farming. The reader will be able to understand the main concepts and techniques currently used to efficiently manage agricultural production systems. The book covers topics in a general and intuitive way, with examples and good illustrations.
