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Autore	Heijdra, Ben J.
Titolo	Foundations of modern macroeconomics / Ben J. Heijdra
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Titolo	Information and Communication Technologies for Agriculture—Theme I: Sensors / / edited by Dionysis D. Bochtis, Maria Lampridi, George P. Petropoulos, Yiannis Ampatzidis, Panos Pardalos
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Section I: Overview: Emerging Sensing Technologies for Precision Agriculture (Pardalos) -- Soil reflectance spectroscopy for supporting Sustainable Development Goals (Angelopoulou) -- Proximal sensing sensors for monitoring crop growth (Hallik) -- Section II: Wireless network systems applications: Experimental performance evaluation techniques of LoRa radio modules and exploitation for agricultural use (Loukatos) -- Evaluating the performance of a simulated softwarized agricultural wireless sensor network (M. Mostaco) -- Smart agriculture: A low-cost wireless sensor network approach (Angelis) -- Section III: Remote sensing applications: Potential of Sentinel-2 satellite and novel proximal sensor data fusion for agricultural applications (Pandži) -- Trends in satellite sensors and image time series processing methods for crop phenology monitoring (Verrelst) -- Drone imagery in support of orchards trees vegetation assessment based on spectral indices and deep learning (andric) -- Section IV: Proximal sensing applications: What does the NDVI really tell us about crops? Insight from proximal spectral field sensors (Atherton) -- Geophysical sensors for mapping soil layers - a comparative case study using different electrical and electromagnetic sensors (Luck) -- Geoinformation technologies in pest management: mapping olive fruit fly population in olive trees (Papafilippaki) -- In-field experiments for performance evaluation of a new low-cost active multispectral crop sensor (Tagarakis).
Sommario/riassunto	This volume is the first (I) of four under the main themes of Digitizing Agriculture and Information and Communication Technologies (ICT). The four volumes cover rapidly developing processes including Sensors (I), Data (II), Decision (III), and Actions (IV). Volumes are related to ‘digital transformation” within agricultural production and provision systems, and in the context of Smart Farming Technology and Knowledge-based Agriculture. Content spans broadly from data mining and visualization to big data analytics and decision making, alongside with the sustainability aspects stemming from the digital transformation of farming. The four volumes comprise the outcome of the 12th EFITA Congress, also incorporating chapters that originated from select presentations of the Congress. The focus in this volume is on different aspects of sensors implementation in agricultural production (e.g., types of sensors, parameters monitoring, network types, connectivity, accuracy, reliability, durability, and needs to be covered) and provides variety of information and knowledge in the subject of sensors design, development, and deployment for monitoring agricultural production parameters. The book consists of four (4) Sections. The first section presents an overview on the state-off-the art in sensing technologies applied in agricultural production while the rest of the sections are dedicated to remote sensing, proximal sensing, and wireless sensor networks applications. Topics include: Emerging sensing technologies Soil reflectance spectroscopy LoRa technologies applications in agriculture Wireless sensor networks deployment and applications Combined remote and proximal sensing solutions Crop phenology monitoring Sensors for geophysical properties Combined sensing technologies with geoinformation systems .