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Nota di contenuto	Intro -- Preface -- Organization -- Contents -- Machinery Systems in Agriculture -- Definition of Reference Models for Functional Parameters and Price for Mowers and Mowerconditioners -- Determination of the Effect of the Technical Parameters Which Affect the Tractor Energy Efficiency -- Chopper System for In-line Small Square Balers -- Determination of Suitable Shearing Conditions for Effective Pruning of Tree Branches -- Shear Tests of Grapevine (Vitis vinifera L.) Canes -- The Effect of Different Tillage Methods on Plant

Emergence Parameters for Wheat -- Design Approaches of One-Pass Strip-Till Machines -- Energy Systems in Agriculture -- Coefficient of Dynamic Wall Friction for Hardwood Fuel Pellets -- Mapping Biomass Energy Potential from Agricultural Residues in Tanzania -- Effect of Different Drying Temperatures on CO2 Emissions in Acorn Drying -- Energy-Based Slow-City/Agriculture Mechanization with Circular Hydrogen and Renewable Energy Systems -- Effect of Different OLR and Mixture Ratios on Biogas Production Using Goat Dung and Maize Silage -- Post-Harvest Technologies and Process Engineering -- Optical Techniques for Automated Evaluation of Seed Damage -- Exploring Transfer Learning for Enhanced Seed Classification: Pre-trained Xception Model -- Classification of Pistachio Varieties Using Pre-trained Architectures and a Proposed Convolutional Neural Network Model -- Evaluation of Hydration State around Glycerol as a Humectant Using Microwave Dielectric Spectroscopy -- atural Resources and Environmental Systems in Agriculture -- Development of Fertigation System for Hose Reel Irrigation Machines -- Developing a Data-Driven Model for Predicting Water Stress in Pistachio Trees -- Plant, Animal and Facility Systems in Agriculture -- Evaluation of Air Conditioning Parameters in Semi-closed Greenhouses under Turkey's Climatic Conditions -- 1 Introduction -- 2 Materials and Methods -- 3 Results -- 4 Conclusion -- References -- Criteria of Ecological Pressure on Agricultural Systems -- Discharge Coefficients for Adjustable Slot Inlets Used to Ventilate Animal Production Buildings -- Using Composted Cow Manure to Improve Nutrient Content, Aeration Porosity, and Water Retention of Pine Bark-Based Potting Media -- Impact of Building Geometry, Window Types, and Materials on Daylighting Performance of Livestock Buildings -- Estimation of Vitamin A Concentration in Cattle Blood Based on Fluorescence With/Without Blood Cell Separation by Plasma Filter -- Determination of Operating Parameters in Milking Robots with Milk First Cow Traffic -- Fine-Tuning Growth Conditions: Leaf-Level Vapor Pressure Deficit Control for Optimized Photosynthesis -- Investigation of the Compliance of the Milking Routine and the Pulsator's Working Characteristics to Them Milking Technique in the Bozanönü District of Isparta Province -- Information Technologies, Sensors and Control Systems in Agriculture -- Comparison and Evaluation of Vegetation Indices for Image Sensing Systems in Precision Agriculture -- Implementation and Assessment of an Autonomous Ground Vehicle (AGV) for On-Field Agricultural Operations -- Autonomous Ground Vehicle for Field Activities: Preliminary Sustainability Assessments -- Estimating Tall Fescue and Alfalfa Forage Biomass Using an Unmanned Ground Vehicle -- Combining Digital Image Processing and Machine Learning is Useful for the Early Detection of Salinity and Drought Stresses in Cucumber

Sommario/riassunto

This volume highlights the latest advances, innovations, and applications in the field of agricultural technologies engineering, as presented by leading international researchers and engineers at the 15th International Congress on Agricultural Mechanization and Energy in Agriculture (ANKAgEng), held in Antalya, Turkey on October 29 – November 1, 2022. It covers a diverse range of topics such as machinery and energy systems, agriculture information technologies, digital-smart agriculture, ergonomics, health & safety, system engineering, post-harvest technologies & process engineering, sustainable agriculture, natural resources & environmental systems, plant, animal & facility systems, agricultural engineering education and biosystems engineering. The contributions, which were selected by means of a rigorous international peer-review process, present a

wealth of exciting ideas that will open novel research directions andfoster multidisciplinary collaboration among different specialists.