



Digital Farming, Food, and Environment—a Response to Farm Biosecurity and Food Safety Concerns

Guest Editors:

Dr. Iman Tahmasbian

Department of Agriculture and Fisheries, Queensland Government, Toowoomba, QLD 4350, Australia

Dr. Kourosh Khoshelham

Department of Infrastructure Engineering, The University of Melbourne, Melbourne, VIC 3010, Australia

Dr. Shahla Hosseini Bai

Centre for Planetary Health and Food Security, School of Environment and Science, Griffith University, Brisbane, QLD 4111, Australia

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Message from the Guest Editors

The growing world population and increased demand for food have raised concerns about farm biosecurity and food safety. The need for digital monitoring and management systems that collect and analyse information from environmental sites, farms, animal sheds, food storage areas, and food processing lines in real-time has never been so evident. Digital quality control systems (DQCS) integrate remote and proximal sensor data with the application of machine learning and artificial intelligence algorithms in order to generate real-time information for a specific purpose. DQCS can be used to address biosecurity and safety concerns by reducing human–animal contact, identifying pathogens, detecting environmental pollutants, detecting food impurities and toxins, and differentiating between the preferred plant/animal species and undesirable or potentially dangerous species. This Special Issue aims to gather relevant research that uses digital systems to predict potential risks, help decision-makers to apply site-specific management practices, and decrease the human footprint in the environment.





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Remote Sensing Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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