# **Special Issue**

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

## 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.

#### **Guest Editors**

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### Deadline for manuscript submissions

closed (10 January 2022)



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#### Editor-in-Chief

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