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.

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Message from the Editor-in-Chief

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

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