Decision Support Systems and Data Analysis in Insect Pest E-monitoring and Control

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Message from the Guest Editors

This Special Issue covers current trends and future developments of Decision Support Systems (DSSs) applied in Integrated Pest Management (IPM), spatiotemporal data analysis, and data mining in the agriculture domain.

1. DSS principles and concepts particularly applied in IPM —tools, methods, and techniques, interface design, implementation, and evaluation in pest e-monitoring and control;

2. Real-time e-monitoring systems;

3. E-monitoring tools based on Precision Agriculture (PA) and spatiotemporal data analysis for pest forecasting models;

4. Real case studies or in-field experiments for the identification of key pests, which exploit either machine learning, deep learning, or image processing techniques and aim to identify and count insect pests from images taken by camera-equipped e-traps deployed in a cultivation field;

5. DSSs models and algorithms that help managers decide the most precise (where), the optimal timing (when), and the best practices (how) of spray applications against certain key-pests;

6. Related algorithms, software tools, real case applications, and developments.

Special Issue

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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