

## Special Issue

# Artificial Intelligence (AI) and Insect Pests Management: Securing Food Security, Human Health, and Natural Resources

### Message from the Guest Editor

In recent years, artificial intelligence (AI) development to support integrated pest management is gaining significant attention for pest identification, detection, monitoring, and management of invasive and established pests. AI technology has the potential to revolutionize food production systems, human health, and natural resources by improving the speed and accuracy of insect pests' surveillance, detection, and management. AI is being incorporated into various IPM programs in agriculture, forests, and urban settings around the world. This Special Issue will include original research articles and reviews by leading research entomologists, plant pathologists, weed control specialists, and associated experts. Papers will focus on designing, developing, improving, and implementing AI-based technologies in sustaining food security, human health, and natural resources. Additionally, articles that outline the integration of effective IPM options for a given pest species using AI under climate change patterns in food crops, forestry, and urban areas are particularly welcome.

### Guest Editor

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### Deadline for manuscript submissions

closed (31 October 2025)



## Insects

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#### Editor-in-Chief

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