Breakthrough Technologies for Future Entomology

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Message from the Guest Editors

Dear Colleagues,

Recent advancements in different breakthrough technologies (e.g., robotics, bioengineering, biotechnology, AI, and IoT) are broadening the horizons of applied entomology, changing the paradigms for the management and mass rearing of insect species of socio-economic interest.

Precision and automation technologies are significantly increasing our understanding of insect biology and ecology, and are also providing novel approaches for modelling, monitoring, and managing animal populations in agroecosystems, progressing sustainable crop protection based on biocontrol strategies and IPM programs.

This Special Issue welcomes entomology-oriented theoretical, experimental, and real-world application studies including, but not limited to, the following topics:

- Agricultural robotics;
- Agtech;
- Animal–robot interactions;
- Artificial neural networks;
- Biohybrid systems;
- Biotechnologies;
- Drone and satellite technology;
- Field robotics;
- Information and communications technology;
- Internet of Things;
- Machine learning;
- Soft robotics;
- Super-resolution imaging;
- Wireless sensor networks.

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