

Special Issue

Breakthrough Technologies for Future Entomology

Message from the Guest Editors

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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Insects

an Open Access Journal
by MDPI

Impact Factor 2.9
CiteScore 5.6
Indexed in PubMed



mdpi.com/si/130863

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Message from the Editor-in-Chief

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is
provided to authors approximately 18.1 days after
submission; acceptance to publication is undertaken in 2.9
days (median values for papers published in this journal in
the first half of 2025).