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.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Arthropods are a diverse and abundant group of animals that are important to a variety of research dictates. For example, hexapods act as bio-indicators of ecosystem function and pest status and serve as model systems for questions concerning physiology, embryology, genetics, and social interaction. The editorial board and staff at Insects is committed to providing contributors an open access forum to showcase objective and innovative research as well as succinct review articles. Our journal is dedicated to providing timely and thorough review of qualified submissions and we welcome you to submit a contribution.

Editor-in-Chief

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Author Benefits

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Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.9 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).