Special Issue

New Advances in Beekeeping, Bee Behavior and Its Bionic Applications

Message from the Guest Editor

Bionics, or the application of biological principles to engineering and design, has emerged as a powerful tool in a variety of fields, including beekeeping. The significance of bionics in beekeeping stems from its ability to address critical challenges confronting honey bee populations worldwide. Beehives inspired by bionics can improve bee comfort and productivity, resulting in healthier colonies and more honey production. Bionics is proving to be a transformative force in beekeeping, providing novel solutions to challenges, promoting bee health, and improving the efficiency and sustainability of beekeeping practices. We can contribute to the conservation of honey bee populations and the preservation of a critical ecological balance by incorporating bio-inspired innovations into the apicultural industry. Keywords

- bionics in beekeeping
- beehive design
- bee health monitoring
- bee communication
- foraging behavior
- pollination strategies
- protective gear for beekeepers
- sustainability in beekeeping
- crop yields

Guest Editor

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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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