Special Issue

Animal Geometric Morphometrics—Concepts, Methods, and Applications

Message from the Guest Editors

Geometric Morphometrics is a field of study that combines principles from biology, mathematics, and computer science to analyze and quantify the shape and size variations of biological structures in animals. It focuses on the analysis of landmarks and outlines of organisms, such as the shape of a skull or the outline of an insect's wing. Geometric Morphometrics offers a powerful framework for understanding how shape variations within and between species are influenced by genetics, development, environment, and evolution. It captures the spatial configuration of characteristic points or curves on biological structures. A shape is treated as a set of geometric coordinates and vectors. Geometric morphometrics represents shape variations as configurations of landmarks, which are specific anatomical points or curves identified on structures. These landmarks are typically homologous and can be analyzed directly as geometric data using statistical methods. This Special Issue is dedicated to research addressing the analysis of animal body shape, body parts, and anatomical structures. Studies on both vertebrates and invertebrates are welcome.

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Message from the Editor-in-Chief

Animals is an on-line open access journal that was first published in 2011. *Animals* adheres to rigorous peerreview and editorial processes and publishes only high quality manuscripts that address important issues in the many varied disciplines that involve animals, with a focus on animal science, animal welfare and animal ethics. *Animals* is covered in the Science Citation Index Expanded (SCIE) in Web of Science, with the latest Impact Factor: 2.7 (2024, ranks 15/86 (Q1) in 'Agriculture, Dairy & Animal Science'; 21/170 (Q1) in 'Veterinary Sciences'), 5-Year Impact Factor: 3.2.

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