

Special Issue

Infrared Thermography in Animals

Message from the Guest Editor

Infrared thermography (IRT) provides a visual depiction of electromagnetic radiation with a wavelength >750 nm for each pixel on a generated image. In living tissue, this technology provides a contactless non-invasive means to quantify surface-level temperature dynamics. In animals, IRT technology has many applications in understanding the interface between animal surfaces and their environment. This can be used to study animal thermoregulation and thermal dynamics. Recently, IRT has been used to study animal health issues and in veterinary physiology research. Surface temperature changes alter IRT values in response to tissue warming. These changes can represent tissue perfusion changes from altered vascularity or inflammation. Thermal imaging has been used in the diagnosis and treatment of animal cancers, central nervous system disorders, arthritis, vascular disease, and soft-tissue injuries. IRT offers a fast detection without animal sedation, handling stress or harmful radiation. Establishing norms and generating reliable data is not without its challenges, and there is still much to be learned about normal animal surface temperature patterning.

Guest Editor

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About the Journal

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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