Special Issue

Thermal Imaging Techniques in Biomedical Applications

Message from the Guest Editors

This Special Issue will explore the innovative applications of thermal imaging in the field of biomedicine. As a non-invasive diagnostic tool, thermal imaging offers insights into various physiological and pathological conditions by detecting subtle temperature variations in tissues. We aim to cover advancements in thermal imaging technologies, data interpretation algorithms, and their applications in disease diagnostics, treatment monitoring, and rehabilitation. Key topics include the following:

- Thermal imaging in cardiovascular diagnostics;
- Applications in oncology for tumor detection and monitoring;
- Thermal assessment of skin conditions, burns, and wound healing;
- Advances in AI-driven thermal image processing;
- Integration of thermal imaging with other diagnostic modalities such as ultrasound or MRI;
- Novel methodologies and devices for thermal data acquisition;
- Thermal imaging in personalized medicine and telemedicine applications.

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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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