

## Special Issue

# Innovations in Thermographic Techniques for Diagnostics and Monitoring: Quantitative Methods, AI, and Real-Time Applications

### Message from the Guest Editors

This Special Issue invites research and comprehensive reviews on thermographic techniques for diagnostics and monitoring across science and engineering. We welcome advances in quantitative thermography, active modalities, and 3D/temporal thermography integrated with rigorous heat-transfer modeling. Contributions leveraging physics-informed and data-driven methods, as are multisensor fusion approaches and edge/real-time deployment for closed-loop control. Application domains may include nondestructive evaluation, electronics and batteries, structural health monitoring, buildings/energy audits, and biothermal diagnostics. We particularly welcome benchmark datasets, open-source toolboxes, and reproducibility studies that establish common evaluation protocols and reporting standards. Perspective/roadmap papers synthesizing best practices and future challenges are also welcome.

### Guest Editors

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### Deadline for manuscript submissions

31 March 2026



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## About the Journal

### Message from the Editor-in-Chief

*Thermo* (ISSN: 2673-7264) is an international, peer-reviewed, and open access journal that publishes original research papers, reviews, and Special Issues dealing with experimental, theoretical, and applied thermal sciences. Both theoretical (simulation) and/or experimental research papers within our journal's scope are of particular interest, including satellite-related topics considering thermophysics, solubility phenomena, chemical thermodynamics, and chemical engineering. We encourage scientists to publish their results in as much detail as possible, and there is no restriction on the maximum length of papers. We greatly appreciate suggestions for enhancing the journal.

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### Editor-in-Chief

Prof. Dr. Johan Jacquemin

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