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CFP



QIRT-ASIA-2023: The 4th Asian Quantitative Infrared Thermography Conference

Khalifa University

Abu Dhabi, UAE, October 30-
November 3, 2023

Conference website	https://qirt-asia-2023.org
Submission link	https://easychair.org/conferences/?conf=qirtasia2023
Abstract registration deadline	June 28, 2023
Submission deadline	October 29, 2023

Topics: [infrared thermography](#) [certification](#) [remote sensing](#) [environment monitoring](#)

The biannual **Quantitative InfraRed Thermography (QIRT)** Conference is a meeting of the scientific and industrial community interested and actively working in research, application, and technology related to infrared thermography. All conference topics are intended for quantitative results comprising temperature values as well as further parameters on the tested materials and structures. The latter ones are usually obtained through active thermography, e. g. by exploiting non-stationary heat transfer processes activated by additional heat sources or by considering wavelength-dependent effects.

Submission Guidelines

All papers must be original and not simultaneously submitted to another journal or conference. The following paper categories are welcome (but will not be limited to):

- State-of-the-art and evolution in the field of infrared scanners and imaging systems allowing quantitative measurements, and related data acquisition and processing systems.
- Calibration and characterization of infrared cameras and related topics like certification, standardization, validation, emissivity determination, absorption in media, translucent media, spurious radiations, three dimensionalities of observed objects.
- Characterization of optical and further heat sources for active thermography.
- Analytical and numerical modelling, data reduction and image processing related to infrared thermography.
- Application of infrared thermography to radiometry, thermometry, and physical parameters identification and quantification, in all fields: fluid mechanics, solid mechanics, structures and material sciences, non-destructive evaluations, electromagnetism, medicine and biomedical sciences, remote sensing, environment monitoring, industrial processes and other.
- **Extended abstract** within two pages formatted according to the provided templates.
- **Full papers** following the provided templates.
- **Templates:** [LaTeX \(Overleaf\)](#), [LaTeX \(source\)](#), [MS-Word \(CC BY\)](#), [MS-Word \(CC BY ND\)](#).

List of Topics

- Applications of AI and CNN
- Biomedical applications
- Calibration and metrology
- Civil Engineering and Buildings
- Electronics and semiconductors
- Environment
- Fluid dynamics and energetics
- Image and data processing
- Induction thermography

- Industrial applications
- IR signature, Image Processing and Recognition
- Microscale applications
- Modeling
- Monitoring and maintenance
- NDE and its applications to composite structures
- Novel technique
- Photothermal techniques
- Remote sensing
- Thermographic Systems & Components
- Thermomechanics
- Vibrothermography
- Works of Art

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Publication

Best papers presented at QIRT ASIA 2023 will be published in Quantitative InfraRed Thermography Journal (<https://www.tandfonline.com/journals/tqrt20>)

Venue

The conference will be held at Khalifa University, Abu Dhabi, U.A.E.

Contact

All questions about submissions should be emailed to conference@qirt-asia-2023.org