CALL FOR PAPERS

SPECIAL SESSION

Technological

Technological **R**esearch and **A**dvancments in **A**rchitecture and **N**etworks for **S**ustainable **E**co-energy in **MED**iterranean Cities. **TRAANSEE - MED**

Session Chairs:
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Session description:

As urban landscapes evolve, the energy transition has emerged as a central pillar of global environmental discourse and the primary response to the complex ecological challenges of our time. Addressing these challenges is no longer optional; it is a significant concern that underscores the critical relevance of this special session.

As urban landscapes evolve, the energy transition has shifted from a theoretical discussion to the central pillar of global environmental discourse. Addressing the ecological challenges of our time is no longer optional; it is an urgent necessity that underscores the critical relevance of this special session.

TRAANSEE - MED is dedicated to proposing concrete, technology-driven solutions to enhance energy efficiency within the Sub-Mediterranean region. Our primary objective is to foster a sustainable transition by exploring the multi-faceted factors ranging from architectural heritage to advanced digital networks that ensure the success of interventions in established urban environments. By bridging the gap between vernacular wisdom and modern innovations like Artificial Intelligence, this session provides a multidisciplinary platform to redefine energy performance across urban, agricultural, and specialized sectors in the Mediterranean context.

Topics of Interest

We invite original contributions that address, but are not limited to, the following thematic areas:

1. **Bioclimatic Architecture:** Designs specifically tailored to Sub-Mediterranean ecosystems.
2. **Smart City Strategies:** Frameworks facilitating the eco-energy transition of urban centers.
3. **AI & Energy Management:** Leveraging Artificial Intelligence within existing urban fabrics.
4. **Vernacular Optimization:** Energy efficiency enhancements for traditional Mediterranean urban models.
5. **Agro-Energy Nexus:** Addressing energy efficiency challenges in agricultural buildings.
6. **Tertiary Building Performance:** Optimizing thermal comfort and energy loads in office structures.
7. **Healthcare Infrastructure:** Improving energy standards in sanitary and medical facilities.
8. **Sustainable Tourism:** Integrating renewable energy resources to boost the performance of tourism initiatives.

SUBMISSION

Papers must be submitted electronically for peer review by**:** **May 16, 2026**

https://icaires.com/submission/

All papers must be written in English and should describe original work. The length of the paper is limited to a maximum of 6 pages (in the standard IEEE conference double column format).