

# Sustainable Computing Workshop 2026

SCW @Computing Frontiers  
Towards Sustainable Systems

May 19-21, 2026 Catania, Italy

CALL FOR PAPERS

The **ACM International Conference on Computing Frontiers (CF'26)** is a premier international forum in emerging technologies in the broad field of computing. **SCW 2026** is a workshop within CF'26 that addresses sustainability aspects of computing systems. Emphasis is on current and future challenges of sustainable computing in both academia and industry.

## SUBMITTING A PAPER

We invite prospective authors to submit original papers in areas including, but not limited to:

### Impact assessment or life cycle analysis (LCA) of computing systems and technologies

- Novel methods and tools for LCA and impact assessment or measurement
- Evaluation of the environmental or social, direct or indirect impacts of ICT systems and technologies
- Carbon footprint of systems and technologies
- Attributional or consequential LCAs of computing systems or technologies
- Critical reviews of impact assessment or LCA methods
- Global and/or prospective environmental impact assessment of computing infrastructures and associated industries
- Absolute environmental impact assessment of computing services and sectors compared to planetary boundaries

### Novel methods and tools for systems ecodesign

- Repair/reuse/recycle strategies for computing systems, and integration in a circular economy
- Reusability of devices through hardware and software updates
- Long-term maintenance of hardware and software for increased longevity
- Design methodologies to increase the lifetime or lower the impacts of systems
- ASIC design flows for sustainable devices and applications
- Reconfigurability for systems lifetime extension
- FPGA design flows for sustainable computing devices
- Hardware and software designs and methodologies for better traceability, interoperability and modularity
- Critical reviews of computing ecodesign methods

### Computing systems for sustainability

- Novel exploitations of computing systems for improving the sustainability of applications

Submissions may cover one or several of the three sustainability pillars : environmental, economic and social. Submissions drawing a link between open source contributions and sustainability or between digital sovereignty and sustainability are particularly welcomed.

### Sustainable computing technologies and architectures

- New systems exploited for sustainable computing : chipllets, architectures, AI hardware, cloud, quantum etc.
- New software programming technologies for green computing and low energy processing
- New substrates for low environmental impacts
- Sustainable computing architectures, operating systems and applications
- Provably low environmental or social impact systems and frugal systems
- Reduced energy consumption application-specific designs, and methods to adjust resource requirements to the actual needs of the application
- Low energy video communication architectures
- Sustainable neural network architectures
- Novel power electronics for frugal computing systems
- Testing and verification of system updates, and update or maintenance mechanisms

## Submission Procedure

4-page short paper or 8-page long paper.  
Accepted papers will be published in the ACM digital library.  
Paper submission deadline : **February 27, 2026 (extended)**  
Notification of acceptance : **March 20, 2026**  
Camera ready deadline : **April 6, 2026**

All accepted papers require one registration and one physical attendance at the conference.

## COMMITTEE

Organization Committee

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<https://www.eecone.com/eecone/workshop/scw26.html>