

Call for Contributions

1. Inform the Chair: with the Title of your Contribution

2. Submission URL:

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=ICSNC+2022+Special>

Please select Track Preference as **SusTech**

3. Note: *For 2021, all events will be held in a hybrid mode: on site or virtual choices (live, prerecorded videos, voiced presentation slides, and .pdf slides). We hope for better times allowing us to return to the traditional on site scientific events. However, we are ready to adapt any which way the conditions dictate.*

Special track

SusTech: Emerging Smart Technologies for Sustainable Energy

Chair

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ICSNC 2022: The Seventeenth International Conference on Systems and Networks Communications

<https://www.iaria.org/conferences2022/ICSNC22.html>

October 16 - 20, 2022 - Lisbon, Portugal

Global Climate change is a serious risk to humanity's future, there is an urgent need to further develop smart and innovative solutions and technologies for sustainable energy and restoring the world to a better carbon balance. The main objective of sustainable and smart energy for present and future generations can be achieved by incorporating emerging technologies into the current energy system and infrastructure. Nowadays, all countries, organization and companies are working to combat climate change and play a major part in a successful energy transition by embracing energy efficiency and increasing use of renewable energy. This indeed requires significant efforts in terms of developing advanced technology-led solutions.

This can be achieved via the integration of multiple game-changing technologies such as Advanced AI and Algorithms, Internet of Things (IoT), Wireless communication for subsurface remote sensing and big data.

The challenges for the development of smart technologies for sustainable energy are:

- Sustainable energy production forecasting
- Distributed energy provisioning
- CO2 plume monitoring of subsurface migration
- Real-time monitoring of inadvertent leakages
- Storing of renewable energy
- Real-time sensing
- Real-time sensor data processing and interpretation

- Subsurface hydrogen storage
- Enhancing reliability of smart technologies

These challenges can be addressed with emerging smart technologies for sustainable energy production.

Topics include, but not limited to:

- Technologies for Hydrogen
- CO2 Subsurface Sensing
- Big Data & Advanced Analytics
- Smart Sensor & Intelligent Devices
- Internet of Things (IoT)
- Wireless communication for subsurface Sensing
- Advanced AI and Algorithms
- AI in Remote Sensing Applications
- Advanced Sensing
- Machine Learning
- Robotics Technology
- Case Studies

We also welcome submissions that report negative findings or shortcomings of common practices.

Contribution Types

- Regular papers [in the proceedings, digital library]
- Short papers (work in progress) [in the proceedings, digital library]
- Posters: two pages [in the proceedings, digital library]
- Posters: slide only [slide-deck posted on www.iaria.org]
- Presentations: slide only [slide-deck posted on www.iaria.org]
- Demos: two pages [posted on www.iaria.org]

Important Datelines

Inform the Chairs: As soon as you decide to contribute

Submission: Sept 2

Notification: Sept 18

Registration: Sept 28

Camera-ready: Sept 28

Note: The submission deadline is somewhat flexible, providing arrangements are made ahead of time with the chair.

Paper Format

- See: <http://www.iaria.org/format.html>
- Before submission, please check and comply with the editorial rules: <http://www.iaria.org/editorialrules.html>

Publications

- Extended versions of selected papers will be published in IARIA Journals: <http://www.iariajournals.org>
- Print proceedings will be available via Curran Associates, Inc.: <http://www.proceedings.com/9769.html>
- Articles will be archived in the free access ThinkMind Digital Library: <http://www.thinkmind.org>

Paper Submission

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=ICSNC+2022+Special>

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Registration

- Each accepted paper needs at least one full registration, before the camera-ready manuscript can be included in the proceedings.
- Registration fees are available at <http://www.iaia.org/registration.html>

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