

**Special Session on
Clean Energy (CE21) at
11th World Congress on
Information and Communication Technologies (WICT 2021)**

Online, 16-18 December 2021

<http://www.mirlabs.net/wict21/>

Objectives and Scope

Clean Energy is usually defined as the energy derived from renewable, zero-emissions or renewables sources. However, it is consensual that for a Clean Energy Economy it is necessary to integrate renewables sources and energy efficiency to attain a sustainable planning scenario. The decarbonization is only possible with the implementation in large scale of the clean energy. The development of more sustainable energy technologies has become critical and necessary in ensuring that the actions of climate change are tacked. As such, green hydrogen has emerged as one of the most promising and potential medium of energy storage. This means that it can be employed to guarantee the security of energy systems and to cover the energy demands during the low availability periods of VREs which include wind and solar power.

The Europe global goal to energy for the 2020 to 2024 period is "A European Green Deal". The green energy includes a renewed energy strategy includes various management aspects such as human resources, sound financial management, anti-fraud, digital transformation and environment management. However, to achieve these goals, difficult challenges arise in different sectors such as: electric power system, economic, environmental, and political.

We invite high quality contributions from all research areas that address the emerging data challenges in these streams. Several topics of interest include, but are not limited to, the following:

- Renewable power generation and clean energy technologies
- Distributed energy resources and storage
- Modern power system operation and planning
- Power system protection and automation in energy management systems
- Power system economics and markets
- Transmission technologies in modern power systems
- Active distribution networks and microgrid applications
- Modern power grid devices, sensors and wireless technologies
- Load management and customer participation
- Electric vehicles and electrification of transportation industry
- Cyber-physical systems and power system communication technologies
- Interdependency of electricity with other large Infrastructures
- Power system modeling and computational analyses
- Green Hydrogen
- Environment sustainability, Engineering Sustainability
- Carbonization, Sustainability and Circular Economy

Paper Publications

- Proceedings will be published in Lecture Notes in Networks and Systems, Springer (Indexed in SCOPUS, INSPEC, WTI Frankfurt eG, zbMATH, SCImago)
<https://www.springer.com/series/15179>
- Papers maximum length is 10 pages
- Papers must be formatted according to Springer format (Latex/word) available at:
<https://www.springer.com/de/authors-editors/book-authors-editors/manuscript-preparation/5636#c3324>

Important Dates

Paper submission due: October 20, 2021

Notification of paper acceptance: October 31, 2021

Registration and Final manuscript due: November 15, 2021

Conference: December 16-18, 2021

Special Session Chairs

- Judite Ferreira Interdisciplinary Studies Research Center (ISRC) - Institute of Engineering of Porto – Polytechnic of Porto (ISEP/P.PORTO)
- Ana Madureira - Interdisciplinary Studies Research Center (ISRC) - Institute of Engineering of Porto – Polytechnic of Porto (ISEP/P.PORTO)
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