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# INTERNATIONAL CONFERENCE ON SMART AND SUSTAINABLE TECHNOLOGIES

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Community for Change

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## Special Session:

### Combining Citizen Science with emerging technologies to foster pro-environmental and healthier behaviour

## ORGANIZERS



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## CALL FOR PAPERS

Human intelligence, IoT, and AI each have their own strengths and weaknesses. Machines are effective and efficient in the discovery of implicit knowledge or hidden patterns from large-scale data. In contrast, humans are good at conducting cognitive analysis such as reasoning, inference, and making instinctive judgments by taking into consideration dynamic and multiple factors. When people are organized into groups to conduct research activities, this is called Citizen Science, which pursues Collective Intelligence. Citizen science needs more and more technological artifacts to be effective for scientific endeavours.

Therefore, humans and machines do not have to be competitive or mutually exclusive, and one does not have to dominate/replace the other. One way to address the two issues mentioned above is to marry the strengths and mitigate the weaknesses of human intelligence and emerging technologies, making them work in collaboration and cooperation. This is very much the rationale behind the concept of the Internet of People.

In this Special Session, we will gather evidence from existing research regarding the intersection of Citizen Science, Artificial Intelligence, data from space (e.g., Copernicus), and IoT (e.g., low-cost sensors) to create communal smart environments where synergy and symbiosis among the agents are enabled. We are especially interested in experiences where people collaborate with other people and machines in activities such as data collection (e.g., participatory/opportunistic sensing), modeling, hypothesis testing, analysis, and outreach for a wide range of applications of crowd-sourced, Internet-based information with the focus on pro-environmentalism and pursuing activism towards preserving the planet or co-ideate adaptation strategies to new environmental events related to climate change (e.g., improve the air that we all breath).

Accepted, and presented papers will be published in the conference proceedings and submitted to IEEE Xplore as well as other Abstracting and Indexing (A&I) databases. Authors of selected best papers will be invited to submit an extended version of their manuscripts for publication in a special issue of some international and indexed journals.

We cordially invite authors who wish to present original papers or reviews on the following topics:

- Citizen science (CS) in all their flavours
- Low-cost sensors for CS
- IoT in CS
- Human-centric experiences in CS
- Sustainability, air quality, and CS
- Hybrid Intelligence
- Crowdsourcing and crowd-curating experiences in CS projects
- Evidence-based policymaking based on citizens' reported data
- Green deal and CS
- Standardization, Calibration, and Security issues in CS projects
- Ethical and Regulatory concerns in CS
- Inclusive citizen science
- Social Citizen Science

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Special Session Committee:

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