Title: Beyond raising awareness, let's involve: Enabling Citizen Science with emerging technologies to foster pro-environmental behaviour.

Abstract: 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, whereas 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 above-mentioned issues 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 Internet of People.

In this Special Session, we will gather evidence from existing research regarding the intersection of Citizen Science, Artificial Intelligence, data from the 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), modelling, hypothesis testing, analysis and outreaching 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).

Organization: The proposal is for an interactive workshop where participants will, first, contribute with a position paper presenting their vision on how Citizen Science can help us tackle important challenges against Climate Change. The positions of different participants will, then, be discussed through a panel moderated by the workshop organizers, thus promoting a debate among all participants. Finally, the workshop will take advantage of the presence of experts and researchers interested in Citizen Science to hands-on co-design a Citizen Science experiment following the SOCIO-BEE project methodology.

Participation: Participants must submit a 4-page long position paper (references included). The best position papers will be invited to take part in a special issue "Enabling Citizen Science in Communal Smart Environments with IoT Technology", promoted by the workshop organizers.

Number of people: We think between 20-30 people would be an optimal number to ensure meaningful and enjoyable work in small teams.

Attract people: The way we envision involving participants in the workshop will be by sending invitations to UCAmI's attendees i.e, people will be presenting a paper at the conference. Furthermore, we will extend the invitation to the networks of EU funded projects under the calls: "LC-GD-10-3-2020" and "HORIZON-CL6-2022-GOVERNANCE-01", which have interest on disseminating their contributions. Finally, we will promote participation through social networks and similar channels.

Important Dates:

Deadline to submissions -- September 4th, 2022.
Notifications -- September 10th, 2022

Camera ready -- September 25th, 2022
Conference dates -- November 29th to December 2nd, 2022