



european
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conference

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Horizon Talks- 1st session: Thursday 9th May, 2:00 – 3:30 pm

- ❖ MonuMAI: Making Citizen Science combining Artificial Intelligence, Art, Math and Dissemination.

Miguel Carrasco Tellado & Carmen Segura Quirante

Keywords: Citizen science, Artificial Intelligence, Artistic heritage

WHAT IS MONUMAI

MonuMAI is a citizen science project organized by Fundación Descubre and the University of Granada that offers the opportunity to get closer to the artistic heritage, combining art, mathematics, artificial intelligence and social communication of the science.

Our aim, with the citizen-participants, is to train the algorithm and to teach it to identify these architectural styles from an image.

In addition, we will discover if there is a trend to prefer a proportion over others; we will investigate together about the mathematical secret of the beauty in our monuments.

The project was born in January 2018 and has a multidisciplinary team of experts in Mathematics, Art, Artificial Intelligence, Citizen Science and Social Communication of Science for its promotion and coordination.

- ❖ The dark side of light: The star Spotting project

Lena Söderström

Keywords: Citizen science, light pollution, Star-Spotting Experiment

Artificial light has played an essential role for the development of human civilization during the past century. At the same time, our use of artificial light has dramatically changed the night-time environment in large parts of the world with worrying effects on animals, whole ecosystems as well as human health, making light pollution a global societal challenge. In the citizen science project “The Star Spotting Experiment”, schools and the general public are invited to test a new, simple method of measuring light pollution in their everyday environments, using an app and a

paper tube. The project runs from February to December 2019, and we are inviting organisations from all across Europe to participate and bring the Star-Spotting Experiment to their countries.

❖ Tell me data ... Statistics storytelling

Giovanni Prattichizzo

Keywords: Storytelling, statistical communication, fake news

In the Social Network Society the scientific and statistical communication is compared with the narrative schemes of imaginative storytelling, according to which the story is intended to make the narrative seem more captivating than the numbers and the meaning of numbers as such could succeed in to say.

To tell a statistical history means to insert the statistical data in a text flow and in a social narration that increases its significance and facilitates its understanding, in the belief that users remember more easily the stories of numbers, than the numbers in themselves.

The aim is to show how, on the one hand, we are facing an exponential increase of fake news and fake statistics, on the other, the public are increasingly eager to find scientific communication channels, which, very followed, start a Public Engagement with Science and Technology and represent a real antidote to the spread of fake information. The analysis of some case studies and the experiment of "Lost in Istat", a competition promoted by Istat, show that the transition from disclosure to scientific serial communication is increasingly widespread and represents the path to follow by making narrative rules their own. This implies the necessity of a statistics storytelling: an approach able to tell the statistics, inserting the data in a context narrative, in order to obtain a more captivating merger between the cold world of numbers and the most exciting words.

❖ Our Space Our Future

Andrea Troncoso

Keywords: Space research, EUSEA, science communication, engaging students

Space-related science is advancing at an incredible speed. But how close and confident do citizens, students and teachers feel when linking the outcomes of space research with their daily lives? Are citizens aware of the benefits that discoveries in space bring to their day-to-day life? The EU-supported project 'Our Space Our Future', launched in December 2018, will strive to answer these questions. Gathering 8 organisations from 6 European countries, led by Cardiff University, the project aims to inspire students, so they aspire to consider a space-related career in their future professional development. In a "trans" PechaKucha format, the projects communication officer will present 20 slides in 8 minutes, sharing the nuts and bolts of this space-based mission

❖ School Citizen Science Projects: a vehicle to cultivate awareness on Sustainable Development Goals

Elena Kinz

Keywords: School citizen science, Sustainable Development Goals, TeaTime4Schools

The Sustainable Development Goals (SDGs) are the core of a globally accepted developmental agenda, aiming to raise awareness of the challenges of sustaining our planet for future generations. The awareness of and attitudes towards the SDGs in Austria are growing, however, relevant individual and population-level methods of enlightening people about the SDGs are hard to put in place. School Citizen Science projects are well-suited vehicles to communicate SDGs in an educational yet extracurricular setting, which allows scientists and communicators to open a dialogue about SDGs and encourage students to be active participants in the world they live in. In the Citizen Science project TeaTime4Schools an interactive workshop on SDGs with high schools students took place. This talk will discuss ways to include SDGs in Citizen Science Projects and to engage teachers to explore these issues together with their students and plan ways to take action.