

## **Sustainable Education in a Digital Age of rapidly Emerging Technologies**

### **IFIP TC3 Zanzibar Declaration – Webinar 3: Ethical Issues of Autonomous Systems – Educational Concerns**

**9 September 2021, 02.00-3.30 p.m. GMT (UTC)**

#### **Brief background**

IFIP Technical Committee 3 (TC3) agreed in its Annual General Meeting in April 2019, held in Zanzibar, Tanzania, to initiate a declaration on '**Sustainable Education in a Digital Age of rapidly Emerging Technologies**'. This 'Zanzibar Declaration' (ZD) focuses on future educational challenges that arise from rapidly emerging technologies impacting societies and communities ([background details are shown on the website](#)).

This webinar is the third in a series of events that will explore these challenges. The third webinar will offer perspectives that relate to ethical issues of autonomous systems, to consider how recent important digital technology developments in this area are having societal impact, and resulting educational challenges and concerns. To consider educational challenges in as many countries, situations, local contexts, and experiences as possible, IFIP experts and practitioners will contribute their ideas to support the development of this element of the ZD matrix

The webinar will start a dynamic process, collecting contributions and data, supplemented and updated over time (developing the ZD matrix as a living document). Outcomes will describe different challenges and development paths in different countries.

#### **Intentions of this webinar**

In this webinar, researchers, practitioners, and decision-makers will have their say through a panel discussion and online comment, exchanging experiences and views on respective thematic areas. All participants will have the opportunity to join the discussion via moderated chat and Twitter during the webinar. A discussion forum is also provided to enable any contributor to ask questions, post comments or present their experience related to the topic before, during or after the webinar.

A wide variety of individuals is asked to participate in this international process at various levels. Being a part of an international exchange of experience on these topics, those involved will offer and receive ideas and stimuli related to their policy, research or pedagogical practice, consider how to deal with possible consequences of future technological developments in their respective social environments and present their situational perspectives. The webinar will offer the opportunity to establish worldwide networks through Communities of Interest to enable continuing working together on this particular topic in the future.

#### **Outcomes of Webinar 3**

The benefit for society is to build collaboratively and make visible a wide landscape of the consequences of this technological development across a wide variety of social environments. Such a landscape can then be used as a map for different actors to think about their policy, to strategically orient their practices or research perspectives, enabling those in specific contextual situations to:

- Gain new educational, societal, theoretical, and technical insights about different manifestations of autonomous systems, their ethical issues, and their educational concerns
- Consider ethical issues at the very beginning of the design process of autonomous systems and during the evolution and appropriation processes: how to take into account the variety of users' needs, digital equity, priorities and expectations according to their location, culture and perspective?
- Reflect on basic indispensable scientific foundations of the design of these autonomous systems, e.g. concerning important understandings about decision making algorithms or perception and reaction capacities of these autonomous systems

- Participate in the design of specific elements of the ZD through synchronous contributions during the webinar (chat, tweets), asynchronous follow-up discussion (forums), or short contributions to the ZD matrix
- Share insights into various practical contexts and examples of implementation in different countries
- Build up networks of researchers, practitioners, decision-makers to promote joint work on thematic projects
- Develop a (co-operative) publication for a follow-up conference

### **What the webinar involves**

Prior to the webinar, basic literature will be distributed as a preparation and stimulus (1-2 papers), suggested further reading, and details of the ZD matrix matching the topic of the webinar will be available on the website.

The webinar will run for 90 minutes. The webinar will involve a panel of experts, who will be asked to talk for 10 minutes. The panellists include:

- Olalekan Akinsande, a practitioner developer who will discuss the development of autonomous systems and ethical issues from an educational practice perspective
- Lin Zhang, a tutor and developer of games-based systems who will discuss uses and ethical implications of games as autonomous systems from an educational context
- Professor Andrew McGettrick, an expert who will focus on current and future developments of autonomous systems and ethical issues and challenges they raise
- Professor Don Gotterbarn, an expert on ethics and computing, who will focus on the ethical challenges of autonomous systems
- Professor Kai Ranenberg, an expert who will focus on current and future developments and challenges of security and privacy protection with autonomous systems

The webinar will be supported by a moderator of the panel, and a co-moderator (to summarise and discuss questions or contributions through tweets and chats received during the webinar). You will be able to express your experiences and challenges, related to this theme. You will be encouraged to outline your context, the kind of activities in which you are involved, and the problems you face. The platform Zoom will be used for synchronous sessions during the webinar.

### **Registration**

To register for the webinar, please complete the [registration form](#). Please note - there is no need to register if you have already done so.

The event is **free – there is no registration fee**.

However, please note that due to likely high interest in this event, online participation will be restricted to the first 100 registered participants. If you do not manage to register in the first 100, you will still have access to the recording, and will still be able to submit your comments and short contributions.

### **Event organisers**

Co-moderator: Prof Johannes Magenheimer

Co-moderator: Prof Cathy Lewin

Technical organisation: Prof Javier Osorio

ZD Matrix development: Prof Raymond Morel

Organisational planning: Dr Christophe Reffay

Organisational support: Prof Don Passey