

IoT, Big Data and AI: Innovating STEM Teaching Through Strengthening Teacher Professionalisation

Technical Training Session #1:

“What is the Internet of Things (IoT), How Does it Work?”

Monday, 18 October 2021 | 13:30 – 15:00 (CEST)

Join Us at the Technical Training Session:

<https://zoom.us/j/437007825?pwd=K2I2QU1FdWFkN3ZyWEFwNzMrUjBFUT09>

Password: classnet

Introduction

The Internet of Things (IoT) refers to the network of various physical objects that are inserted with sensors, software, and other technologies for connecting and exchanging data with other devices and systems over the internet. From ordinary household objects to advanced industrial tools, these devices can be found anywhere today. According to Oracle, currently there are more than 7 billion connected IoT devices, and the number is expected to grow to 10 billion by 2020 and 22 billion by 2025.¹

Due to this rapid growth of IoT devices, new opportunities are being created that's shaping the future of education and jobs. Therefore, to motivate today's young learners towards STEM subjects related to the IoT, it is important that they are provided with opportunities to expose themselves to scenarios that help them be curious and be aware of the IoT Devices and develop a basic understanding about them. This Session will provide the participating teachers and students the simple knowledge needed to understand what IoT is and how it works.

About the Speakers & Facilitators



Prof Aleksandra PRZEGALINSKA
Vice-Rector and an Associate Professor
Kozminski University

Aleksandra is currently the Vice-Rector and an Associate Professor at the Kozminski University. She is also the Leader of the AI in Management Program in the same institution. Until recently, she conducted research at the Center for Collective Intelligence at the Massachusetts Institute of Technology in Boston. She graduated from The New School for Social Research in New York. In the spring of 2021 started short Senior Research Fellowship in the American Institute for Economic Research. She is interested in the development of new technologies, natural language processing, humanoid artificial intelligence, social robots, and wearable technologies. She is the author of Collaborative Society (The MIT Press) <http://www.collaborativesociety.net/>, which is published together with Professor Dariusz Jemielniak.

¹ “What is IoT? By Oracle: <https://www.oracle.com/sg/internet-of-things/what-is-iot/>

Recommended Reading List

- 1) What is the “Internet of Things?” by the World Economic Forum:
<https://www.youtube.com/watch?v=NnB-iSrqbFY>
- 2) What is the Internet of Things (IoT)? By Oracle and IBM:
<https://www.oracle.com/sg/internet-of-things/what-is-iot/>
<https://www.ibm.com/blogs/internet-of-things/what-is-the-iot/>