Training School: Policies, Technologies, and Entrepreneurship for Digitalization of Society.

26-28 September 2023, Skopje, North Macedonia

"Ss. Cyril and Methodius" University - Skopje
FACULTY OF COMPUTER SCIENCE AND ENGINEERING

Address: ul. Rudzer Boshkovikj 16, Skopje, North Macedonia

Venue: **FINKI** - Faculty of Computer Science and Engineering, Ss Cyril and Methodius University in Skopje – UKIM

Room: (**TMF Amphitheater** – Amphitheater of the Faculty of Technology and Metallurgy, UKIM)

AGENDA

DAY 1 (26.09)

13.30   Arrival of the participants

14.00   **Welcoming remarks by organizers**

14.00-15.30   **Carina Dantas**

Empowered communities leading the way to trusting ecosystems and policy change: from SHAFE to NET4 and SIRENE

Policies play a pivotal role in shaping the evolution of society, including the challenges that arise from digitalization. They establish the legal, regulatory, and ethical frameworks that govern digital technologies, protect individual rights, ensure data privacy and security, and promote fair competition. But go beyond legal and regulatory aspects: effective policies encourage innovation, foster trust, and balance the need for technological advancement with societal impact and ethical considerations. Policy-oriented initiatives addressing citizen empowerment, multi-stakeholder engagement, trusting communities, ecosystem building, and social innovation are essential for creating a sustainable and equitable society with digital inclusion.

After an introduction to the topic and a summary of the three initiatives: SHAFE, NET4Age-Friendly and SIRENE, Carina Dantas will dynamize a hands-on workshop where participants will brainstorm on the main challenges and needs of our communities towards the transformation on Smart Healthy Age-Friendly Environments.

15.30-16.00   Coffee break

16.00-17.00   **Mara Gabriela Diaconu**

Innovation mission thinking – participants will learn about innovation concepts, how to develop their research with an innovation thinking mindset, how to build their visions, goals, and actions, how to see and find their research in a bigger picture.

17.00-18.30   Hrvoje Belani

Cyber Security in e-Health.

Abstract: This lecture aims to provide basics of cybersecurity and asset protection for organizations working in health, medicine, life science or pharma domains. Security vulnerabilities, threats and risks exist in digital solutions using various technologies, from web and mobile to Internet of Things and Artificial Intelligence, and they should be managed in order to establish proper protection and maintain resilience. One of the weakest links – humans should gain cybersecurity awareness and enterprises should create and cherish cybersecurity culture, as well as information security hygiene. In order for emerging digital health solutions to function and prosper in real life environments, regulatory frameworks for cybersecurity and data protection have to be applied, and for privileged assets the rules for classified information management.

DAY 2 (27.09)

Technology and Policy for Smart, Responsive, Inclusive and Eco-Friendly housing

09.00-09.30   Welcoming participants and Networking

09.30-11.00   Willeke van Staalduinen

Defining impacts of social innovation

The SHAFE concept (Smart Healthy Age-Friendly Environments) aims to improve the health, well-being and inclusion of all citizens in society. Thereto we encourage stakeholders to combine and implement user-centred digital, physical, and social solutions at the neighbourhood or local level. But how do you measure the impact of SHAFE? In her lecture, Willeke will explain the working of SEE-IT Revisited, a tool to perform ex-ante and ex-post evaluations and to define social, economic and environmental impacts. Additionally, the trainees will practice with the SEE-IT Revisited themselves.

11.00-11.30   Coffee break

11.30-13.00   Vladimir Trajkovikj

Crafting Values Using MVP and Pivoting: Lean Canvas Approach

The lecture will elaborate on creating Value Proposition and Minimum Valuable Product by using the lean thinking approach (and pivoting) to develop a lean or business canvas.

It will be structured to provide a comprehensive understanding of lean methodologies and their application in business development. It will begin by delving into the core concept of the value proposition structure, exploring how to identify and articulate the unique value a product or service offers to customers. The discussion will then transition to the concept of Minimum Viable Product (MVP), exploring how to define and build a functional prototype that serves as a foundation for iterative development. Subsequently, the lecture will delve into the principles of lean thinking, emphasizing

the importance of efficiency, and continuous improvement in the business development process. The final segment will focus on the art of pivoting, showcasing how to strategically shift and adapt business strategies based on feedback and changing market conditions, ultimately leading to the development and refinement of a lean or business canvas that aligns with the evolving business landscape. Throughout the lecture, real-world examples will be used to illustrate key concepts and provide practical insights.

13.00-14.00   Lunch

14.00-15.30   Mara Gabriela Diaconu

Pitch, market reach, communication. The 4 "I"s

• Innovation – How innovative is your idea?

• Impact – What is the potential impact of your idea?

• Implementation – How feasible is the implementation? (costs involved, time, resources necessary, replicability, etc)

• I – What is your group talent in making this happen?

15.30-16.00   Coffee Break

16.00-17.00   Tatjana Loncar Turukalo

Towards advanced AI supported diagnostic - experiences from INCISIVE and BigSleep projects

This talk summarizes experiences in breast cancer screening from digital mammograms, gained through H2020 INCISIVE AI for Health imaging project, presenting data curation and deep learning approaches used, and performances achieved. An overview of the INCISIVE project will be provided, with a special focus on INCISIVE federated image repository, including scope and functionalities offered by the web based INCISIVE AI tool. Options for using AI toolbox in different roles, as data provider, AI researcher and health care professional, will be introduced. The talk will further present experiences and challenges met in BigSleep project in analysis of multiple simultaneously recorded physiological signals in an attempt to automatically detect adverse events from polysomnographic recordings.

17.00-18.00   Milica Solarević

Socio-demographic framework and implications of ageing, intergenerational solidarity and ageism

Population aging represents a civilizational triumph of medical, health, social and economic measures, but at the same time one of the biggest challenges in the 21st century. Intergenerational solidarity emphasizes the importance of mutual support and cooperation among different age groups, while ageism represents discrimination based on age. They have a profound impact on our communities and the well-being of individuals across generations. Intergenerational solidarity is a concept that

underscores the essential bonds and mutual support between individuals of varying age groups within a society, in line with active ageing.

Over the course we will delve deeper into these topics, examining strategies and initiatives aimed at fostering intergenerational solidarity, considering data on ageing on the EU and UN levels and their demographic and legislative implications. We will strive to understand the societal, economic, and emotional implications of these issues, while also celebrating the richness and diversity that each generation brings to the table. Our goal is to raise awareness about the challenges of ageism and inspire collective efforts to build a society where solidarity among generations prevails, and ageism becomes a thing of the past. At the end 15 min exercises: developing age-friendly and IGS ideas.

DAY 3 (28.09)

09.00-09.30   Welcoming participants and Networking

09.30-10.30   Alina Lupu

Towards a vision on Healthy Living in the Digital Age

EU policy Framework and the ongoing and future actions at EU level

10.30-11.30   Ivan Chorbev

Next steps on ethics, data and citizen empowerment for the digital age. EuroCC2 / EuroHPC High Performance Computing project.

11.30-12.00   Coffee Break & Networking

12.00-13.00   Daniel Pavlovski

Digitalization of social services for older adults

Demographic aging is a process that most countries in the world are facing. The increase in the number of older adults and their share in the total population affects the increase in the demand for social services. Also, the transformations of the family, such as the reduction in the number of family members, the change in the role of women in society and the family and migration processes reduce the capacity of the family to provide direct support to its old members. Because of this, the need for social services that can meet the needs of older adults in an organized and systematic manner is increasing. In this context, it is of particular importance to take advantage of the opportunities offered by modern technology in the direction of digitization of social services for older adults. In general, social services can be divided into two groups: 1) cash transfers and 2) services. Digitization strategies should be directed in two directions: 1) digitization of social statistics, which is the basis for creating measures in the field of social policy and programs for social protection 2) digitization of services or procedures for applying for social services.

13.00-14.00   Lunch

14.30-15.30   Panel Discussion and Concluding remarks.

Hybrid event, online option:

Microsoft Teams meeting

Join on your computer, mobile app or room device

[Click here to join the meeting](#)

Meeting ID: 391 239 030 416

Passcode: eFLaZQ