CCI TCI European University **EVENT**

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MŰEGYETEM

178

INTERACTIVE VISUALIZATION WORKSHOP: **XR SOLUTIONS** FOR THE BUILT ENVIRONMENT

EELISA WORKSHOP AT BME

WHAT'S GONNA BE THERE?

- Introduction to Virtual Reality in Urban Design
- **Developing VR Applications with Unity**
- **Optimizing 3D Models for VR**
- Hands-on Workshop:

Create Your Own Urban VR Environment

Details & Registration:





NOVEMBER 27-28 2024

BUDAPEST / HUNGARY BME MAIN BUILDING

ONSITE EVENT

LOVAS.TAMAS@EMK.BME.HU

EVENT PROGRAM

- • **DATES:** 27-28/11
- • VENUE: BME Main Building

WEDNESDAY

- 10:00-10:30Registration and
Welcome10:30-12:30Keynote Speeches12:30-14:00Lunch Break14:00-15:00AEC application
- 15:00-16:00 Workshop Session 1
- 16:00-16:15 Coffee Break
- 16:15-17:30 Group Work

THURSDAY

- 9:00-9:30 Welcome and Recap **Expert Panel Discussion** 9:30-11:00 Roundtable Lunch Break 11:00-12:00 **Workshop Session 2** 12:00-14:00 Coffee Break 14:00-14:30 14:30-16:00 **Project Presentations** Short Break 16:00-16:15 **Closing Ceremony and**
- 16:15-17:30 Closing Ceremony an Networking



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Workshop I.	Creating Immersive Experiences – Fundamentals of VR Design in Unity	MÜEGYETEM 1782
Description	In this workshop, participants will gain hands-on experience creating a 3D visualization application in Unity. After a brief introduction to the Unity interface, the focus will shift to importing an FBX model and exploring key topics such as: • Creating efficient low-poly models for real-time applications. • Applying and optimizing textures to enhance visual quality. • Using photogrammetry to turn real-world images into 3D assets. • Implementing strategies to optimize models and scenes for smooth VR performance.	<section-header><text></text></section-header>
Tools	PC / Unity / Street View Download 360 (Download https:// svd360.com/) Headsets (provided by us)	
Outcome	At the end of the workshop, participants will be able to import, visualise and optimise a 3D model in Unity and create a working application.	NOVEMBER 27-28



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allaborative



Workshop II.	Designing VR Projects for the Built Environment	
Description	In this workshop, participants will work in groups to design a VR project focused on the built environment, aiming to balance aesthetics and performance for an efficient VR experience. Groups will brainstorm and develop concepts using learned design principles, with an emphasis on open innovation. A group discussion will follow, where teams present their projects and receive feedback, enhancing communication and problem-solving skills. Skills Enhanced: • Communication: Presenting and discussing projects.	INTERACTIVE VISUALIZATION WORKSHOP: XR SOLUTIONS FOR THE BUILT ENVIRONMENT EELISA WORKSHOP
	 Problem solving: Overcoming design challenges. Collaboration: Fostering teamwork and leveraging group strengths. Open innovation: Sharing ideas and promoting creativity. 	· · · · · · · · · · · · · · · · · · ·
Tools Outcome	Yourself / PC (Optional) Participants will enhance skills in collaborative VR design and communication, gaining practical experience and insight through reflection on diverse approaches and feedback.	NOVEMBER 27-28 2024 BUDAPEST / HUNGARY

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- - **DATES:** 22/11

