

Chair of / Cátedra de /  
Lehrstuhl für

**Archi-  
tecture  
&  
Urban  
Design**

Prof. Hubert Klumpner

Institute for Planning  
of Development  
Canton Sarajevo  
**IPDS**

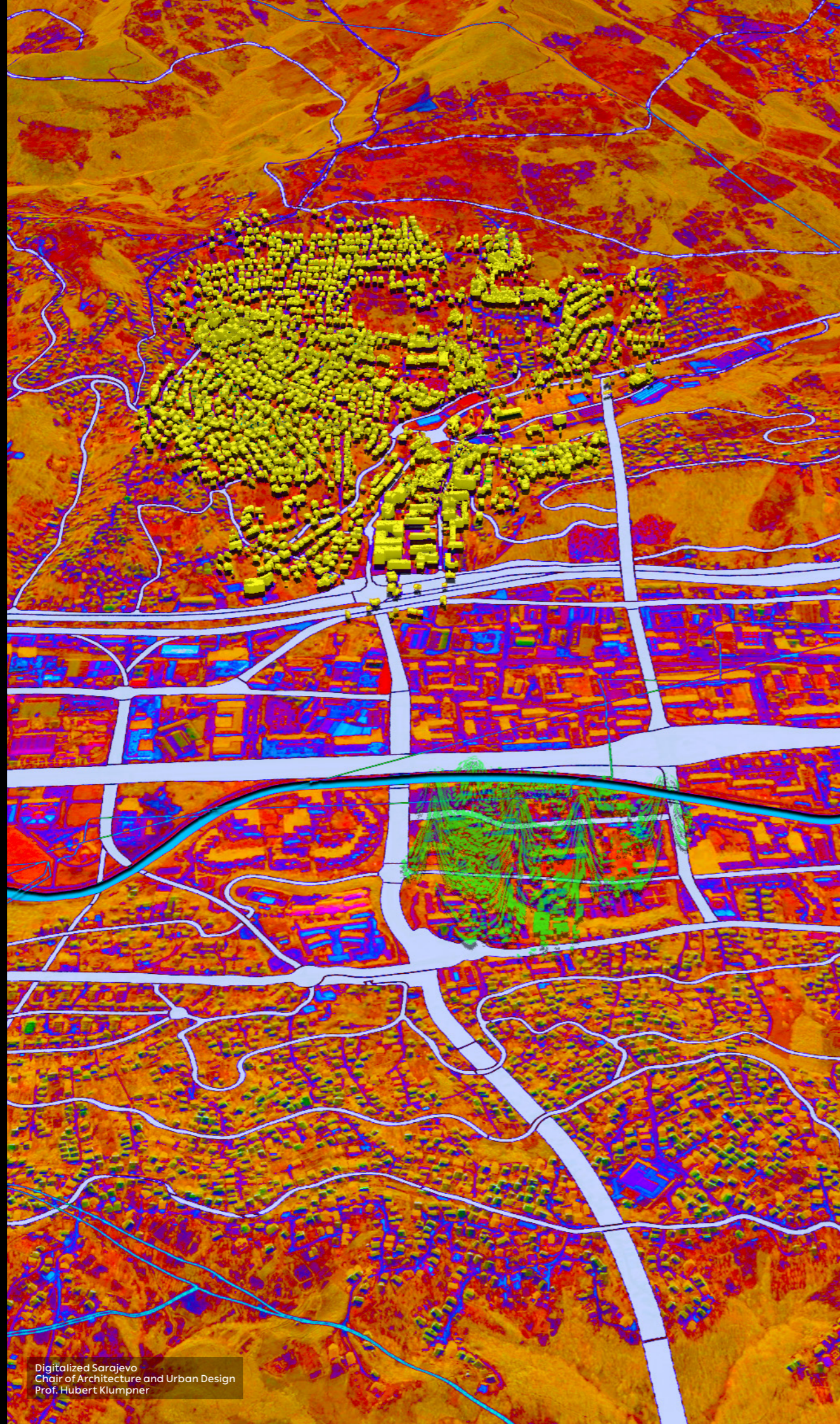
Faculty of Architecture  
University of Sarajevo  
**UNSA**

Institute of  
Landscape- and  
Urban Studies  
**LUS**

**DARCH**

**ETH zürich**

Digitalized Sarajevo  
Chair of Architecture and Urban Design  
Prof. Hubert Klumpner



# Seminar Week | Fall '23 Urban Laboratory

Urban Design Studio, Sarajevo  
23. - 27. October 2023

## Hack Archthon

Visualizing Digital Urban Planning

**How can architects apply cutting-edge data visualization to tackle challenges in multi-scale architectural and urban projects?**

Sarajevo is undergoing a transformation towards innovation and sustainability through the processes of digitalization, urbanization, and ecologization within its built environment. Together with local partners, our chair is actively developing a digital twin of the city, which will serve as the foundational framework for the city's future masterplan.

During this seminar week, students will explore the advantages of blending quantitative data analysis with qualitative architecture strategies when designing urban planning projects. Moreover, participants will acquire valuable visualization skills to represent more effectively data and architecture concepts through captivating 2D drawings, intricate 3D models, and dynamic 4D scenes.

Participants will be encouraged to unleash their creativity by exploring novel methods of data visualization using tools like GIS, WebGL apps, VR/AR, game engines, 3D software, and digital fabrication. Through practical activities, teamwork, and expert support, attendees will enhance their data-driven architectural visualization abilities. Immersive visits to key urban sites and architectural projects in Sarajevo will bridge the virtual-real gap, providing inspiration and real-world context.

**Team Chair of Architecture & Urban Design:**

Prof. Hubert Klumpner,  
Diogo Figueiredo,  
Dr. Michael Walczak (Computational Architect),  
Dr. Marco Pagani (Digital Modeling Expert),  
Alejandro Jaramillo (Pointcloud Architect)

**Team UNSA and IPDCS:**

Prof. Dr. Dženis Avdić (Climate Simulation Expert)  
Vedad Viteškić (Planning Institute Sarajevo)

**Travel Dates:**

Sunday 22 to Saturday 28 of September

**Program Starts:**

Monday 23 October at 10:00 in Sarajevo

**Program Ends:**

Friday 27 October at 17:00 in Sarajevo

**Requirements:**

Motivation to learn digital visualization tools and affinity with coding (basic coding is plus), Laptop.

**Cost Range C:**

Includes accommodation, breakfast, museum tickets, local transportation, and one joint dinner.

The travel costs Zurich-Sarajevo-Zurich are not included in cost range price and must be booked and paid individually. Participants are responsible for travel documents and insurance.

**Organization:**

ECTS Credits - 2  
Min. 10 Students  
Max. 15 Students

