SUMMER SCHOOL
OF ARCHITECTURE
LETNJA ŠKOLA
ARHITEKTURE

SUMMER SCHOOL OF ARCHITECTURE BAČ 2017

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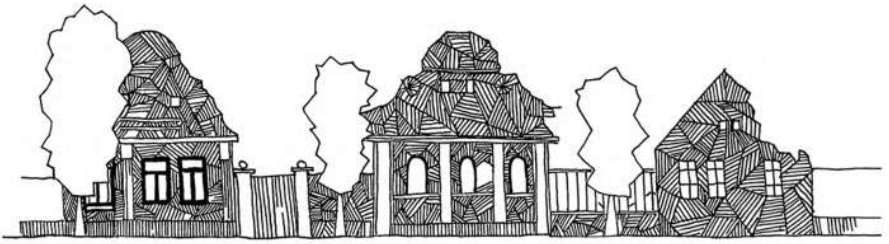

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8TH SUMMER SCHOOL OF ARCHITECTURE IN BAČ, SERBIA

"SURVEYING, INVENTORY AND MONITORING OF ARCHITECTURE AND IMMOVABLE HERITAGE"

The program encouraged multidisciplinary international collaboration, dealing with the issues of implementation and monitoring of projects of heritage protection within the local, regional, and European framework.

PROGRAM
The Summer School took place from Sunday, July 30th, and lasted until August 5th 2017. The program of the School was divided into two modules. The modules are focusing on a variety of architecture and monuments of Vojvodina: the adobe and rammed earth housing and the historical structures.

MODULE 1
HERITAGE INVENTORY AND MANAGEMENT: ARCHES PLATFORM
This module lasted for three days. The aim of the modul is to introduce Arches platform for cultural heritage inventory and management, with the setup and testing of the HIP application. The participants collected data on site, discussed and developed data sheets, practiced the entry into the platform and tested the potential upgrades of the application.

MODULE 2
3D SCANNING AND PHOTOGRAMMETRY
This module lasted for three days. The module consisted of theoretical part, which included: introduction of 3d-scanning using photogrammetry, explanation of the complete workflow from taking photos and processing to final analysis of meshes and creation of sections and floor plans. The practical part includes the following: taking the photos and measurements – explanation of technique and camera settings on a practical example, processing of photos – creation of 3d data (point clouds, triangular meshes and textures) using Agisoft Photoscan; scaling and alignment of 3d data using Cloud Compare; creating floorplans, sections and elevations using Rhino; practicing 3d scanning and 3d data processing on real-world examples with guidance.

Participants of the Summer School of Architecture Bač 2017

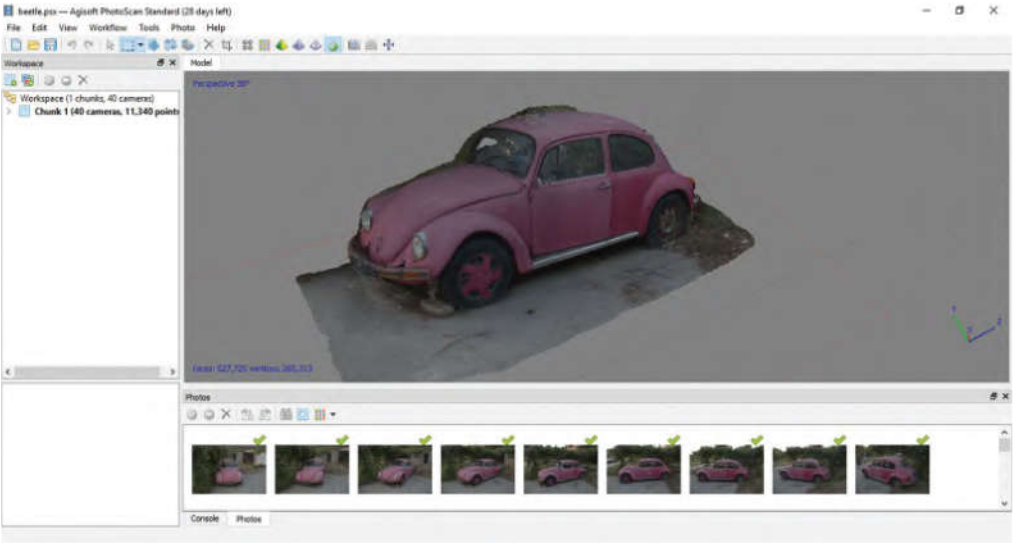
Aylin Akcabozan
Olga Hajduk
Milan Sulan
Pavel Hruskovic
Boban Jovanovic
Jeroen Reyniers

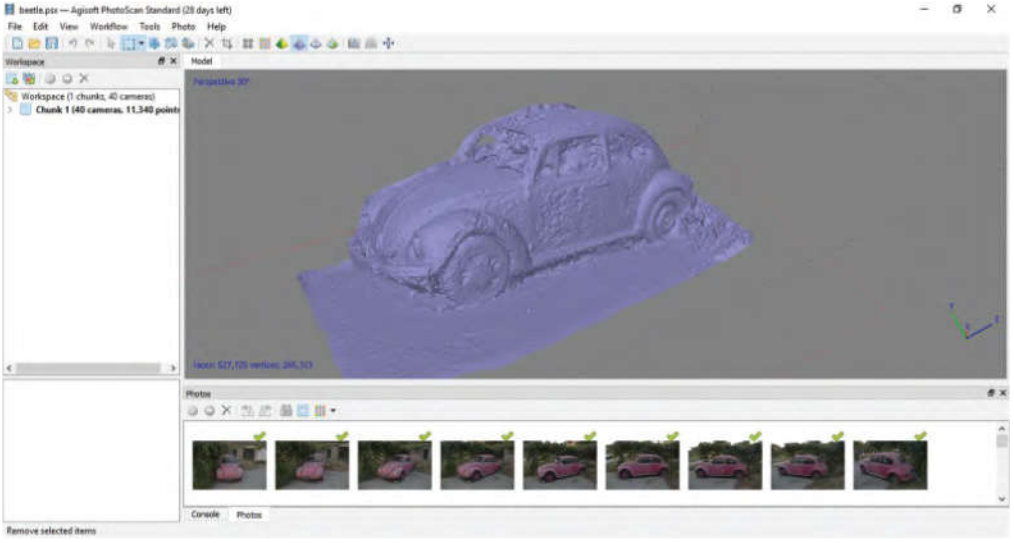
Lecturers

Ing.arch. Ivan Malek, Pixelated Vertex
Ing. Ivan Vukdragovic
Dipl. Ing. Arch. Dragana Petrovic, Grupa arhitekata
Dipl. Ing. Arch. Jelica Jovanovic, Grupa arhitekata
Mag. Arch. Jan Pernecky, rese arch

Architectural survey and photographing of the houses in Bač for the photogrammetry workshop.

The photogrammetry workshop's goal was to explore the low-budget options for creating 3D models of built heritage by using the widely used professional equipment and software.


beetle.psx — Agisoft PhotoScan Standard (28 days left)
File Edit View Workflow Tools Photo Help
Workspace
Model
Workspace (1 chunks, 40 cameras)
Chunk 1 (40 cameras, 11,340 points)
Photos
Console
Photos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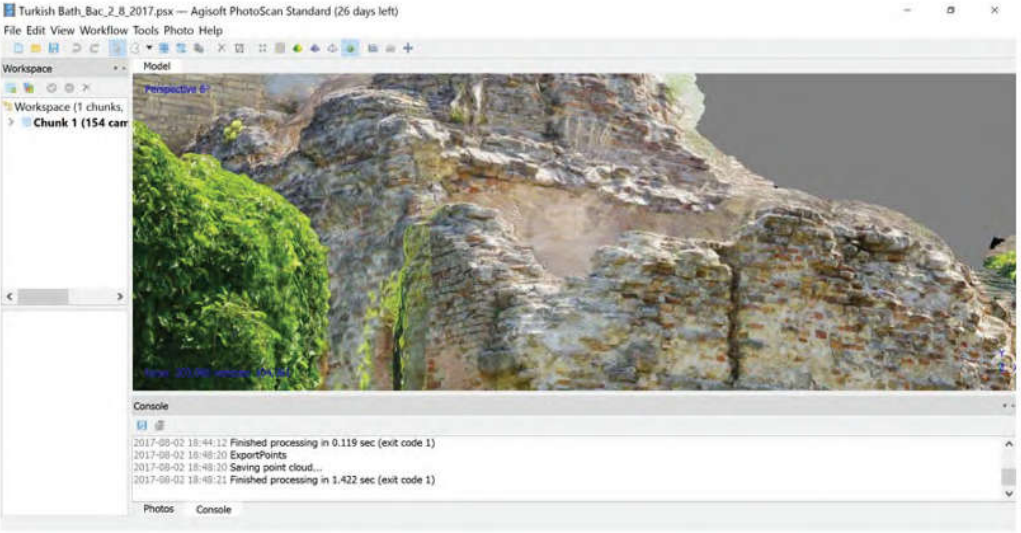
Photos
Remove selected items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File Edit View Workflow Tools Photo Help
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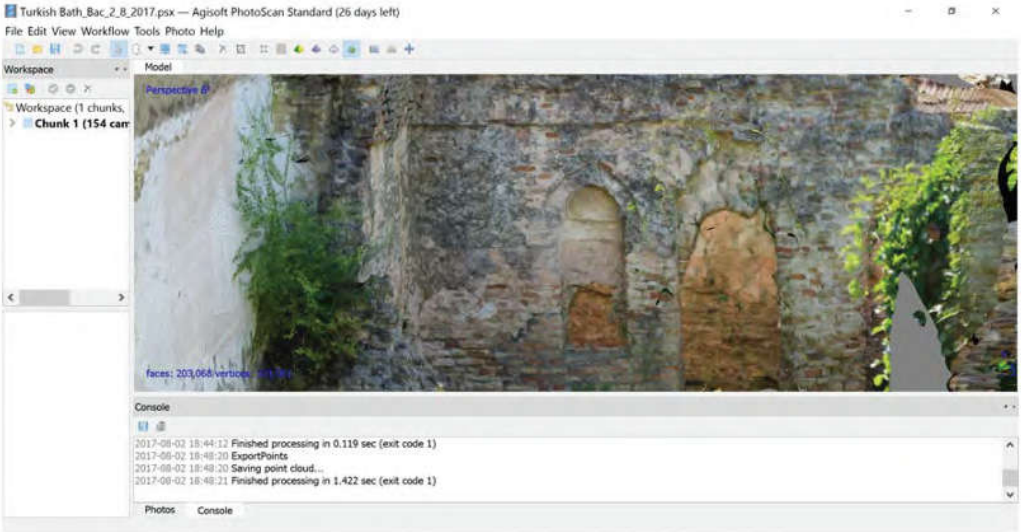
Model
Perspective
Console
2017-08-02 18:44:12 Finished processing in 0.119 sec (exit code 1)
2017-08-02 18:48:20 ExportPoints
2017-08-02 18:48:20 Saving point cloud...
2017-08-02 18:48:21 Finished processing in 1.422 sec (exit code 1)
Photos
Console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