ITN-DCH

www.itn-dch.eu

Initial Training Network for Digital Cultural Heritage

ANAIS GUILLEM, ESR6

Large Scale Spatio-Temporal Reconstruction
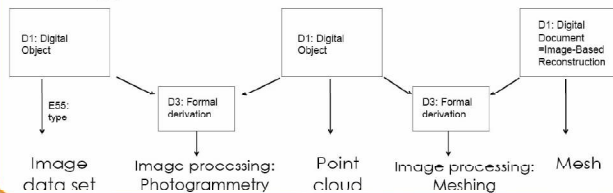
Topic:

The topic of this fellowship deals with large-scale spatio-temporal reconstruction. More specifically, it aims at developing effective and efficient methods for the data collection, processing and modeling for the purposes of understanding and following the processes of building evolution, taking into particular account material properties and typical patterns of decay.

2014 | Start | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | Jan. 2015 | 16 | 17 | 18 | 19 | 20 | 21 | 22

SummerSchool Stuttgart
Euromed Conference Cyprus
FORTH secondment
NTUA secondment
CAA Conference
Carnuntum Workshop
SummerSchool & Midterm review, Rhodes

- Architect
- Archaeologist

Data Acquisition for Image-based Reconstruction

D1: Digital Object

E55: type

D3: Formal derivation

D1: Digital Object

D3: Formal derivation

D1: Digital Document =Image-Based Reconstruction

Image data set

Image processing: Photogrammetry

Point cloud

Image processing: Meshing

Mesh

Data Modeling for Virtual Reconstruction

E30/Document : Plan

E24/Physical Thing: Beam

E24/Physical Thing: Wall

E24/Physical Thing: Door

3D-modeling

Semantics enrichment

Knowledge provenance & Reasoning

INFORMATION SYSTEM INTEGRATION & IMPLEMENTATION

Papers

CAA2015

-UNESCO heritage of prehistoric Pile-dwelling around the Alps, Monitoring of pile-dwelling near Ig, in the marsh of Ljubljansko Barje Park with photogrammetry and BIM approach.

CIPA2015

-Semantically Documenting Virtual Reconstruction: Building a Path to Knowledge Provenance.

DH2015

-Building an Argumentation Platform for 3D Digital Reconstruction using CIDOC-CRM and Drupal.

Secondment Training

FORTH

- Training in knowledge representation;
-CIDOC-CRM;
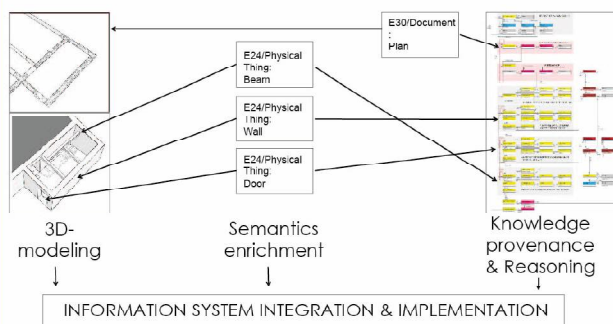-Practical implementation of semantics and formal ontology

NTUA

-Photogrammetry and its use in the reconstruction workflow.

Arctron3D

-Archaeological survey;
-Data acquisition in the field;
-Processing in the lab.

Home Country

Host Country

Univerza v Ljubljani
Fakulteta za gradbeništvo in geodezijo

www. http://www3.fgg.uni-lj.si/en/

Host Organization