Science and Technology for Archaeological Research Center WP 6 – Coordination of Content

SORIN HERMON

research coordinator



STARC









Science and Technology for Archaeological Research Center STARC



Franco Niccolucci















Sorin Hermon























Valentina Vassallo









Other colleagues

- Regine Stein
- Phillips, Universitaet Marburg (PUM)
 - provide support to the mapping activities in the frame of the ingestion process.

Linked

Heritage

Marzia Piccininno

Ministero per i Beni e le Attività Culturali –

ICCU – coordinate activities in WP6 from ICCU











Towards innovative research paradigms in Cultural Heritage – arts and sciences in the 21st century

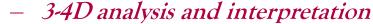


2D and 3D Scientific Visualization

- 2D image analysis
 - Features extraction and Pattern recognition
 - Clustering and Classification



- Archaeological Excavations
- Historic Buildings
- Survey and Landscape



- Integrated research platforms
- Integration of "time" constraint
- Monitoring degrade of archaeological landscape and monuments

- Perception and tele-presence

- 3D stereoscopy
- Museum communication
- Scientific research
- Social inclusion













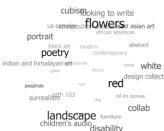


New approaches to knowledge management DATA - INFORMATION - KNOWLEDGE

Digital Libraries

- Semantic data-bases in hybrid environments
 - Data harmonization
 - Data harvesting
- National and International integration
- Knowledge extraction digital tools of interaction
 - Digital annotations
 - Semantic clustering
- Reference collections
 - Mapping
 - Visual analysis
- Personalized Knowledge Representation
 - 3D Semantic repositories
 - User-based content publication





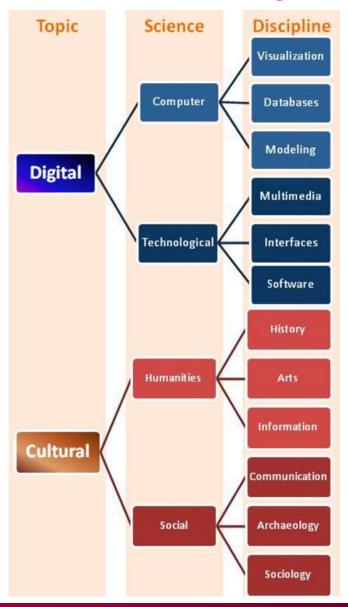








Doctoral Programme in Digital Cultural Heritage (DCH)



DCH01 - New technologies for documenting CH

DCH02 - CH knowledge representation and transfer in the Digital Era.

DCH03 - Advanced theory and methods in DCH

HERITAGE

conservation

knowledge transfer

DCH04 - Adding the nth dimension in CH research.

DCH05 - Developing and designing digital tools of tomorrow.

DCH06 – Research management: funds raising, team working and scientific writing



Linked

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National

Department of Antiquities (field-work, conservation, curatorship)

Cyprus University (archaeology research)

Byzantine Museum (virtual reconstructions, digital libraries)

Leventis Foundation (digital libraries)

Rita and Costas Severis Foundation (Musealization)

EU and Affiliates

CNRS-C2RMF / Louvre Museum (Material Sciences, Digitization)

Free University Brussels (Archaeological Documentation)

Italian National Council of Research (Digital Libraries)

Lund University (Digital Cognitive Technologies and tele-presence)

Israel Museum (Digital approaches to museum communication)

Tel Aviv University (Hyperspectral imaging)

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US

Penn State University - image processing and search engines











RPF (national)

- POLICHROMY analysis of color structures on ancient icons
- STARLAB physical infrastructure for a mobile lab on digital archaeology and archaeometry

■ EU – (IST, eCulture, Infrastructure, etc.)

- 3DCOFORM 3D for Cultural Heritage
- ATHENA Digital Libraries of museum collections for Europeana
- Europeana Local Digital Libraries of CH institutions for Europeana
- STACHEM Support Action for building infrastructures
- CARARE Digital Libraries of 3D models of CH architecture
- V-MUST Virtual Cultural Heritage Museums Network
- Linked Heritage Digital Libraries of museum collections for Europeana

US - National Science Foundation EAGER program

 CYDAR - digital library of ancient texts and classification of ancient icons based on image processing in collaboration with Penn State University

Leventis Foundation

AC DC - Ancient Cypriot Digital Corpus

Dorot Foundation

Shrine of the Book - the Dead Sea Scrolls digital library

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Kick-off meeting Rome, 29/04/2011





Role in Linked Heritage



- WP6 "Coordination of Content" (Co) Leader (with ICCU) 12 p/m
- WP1 "Management" 2 p/m
- WP7 "Dissemination and training" 1 p/m

Linked

- Activity period: months 1-30
- Content Provider:
 - Digital photos x1000+ Private collection of historic photos from Cyprus english jpeg CIDOC- CRM creative commons









Thank you



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sorinhermon





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