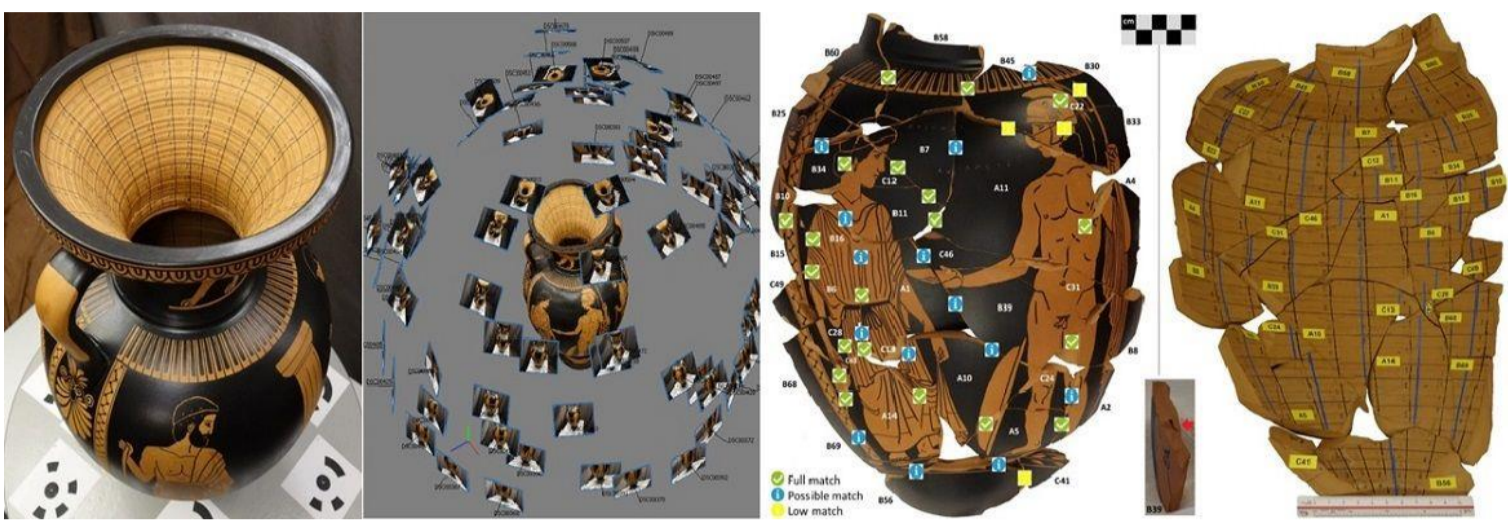


The **Cultural Technology and Communication (CTC)** department of the **University of the Aegean**, is a multi-disciplinary department, with research focusing on humanities, informatics and media sciences. Several faculty members have a strong research portfolio securing of external funding, as well as the production of high-quality research outputs. Among the research labs in the department, the **Intelligent Systems Lab (i-Lab)** research and develops **Intelligent, Interactive and Internet** technologies to support the reproduction, display and promotion of cultural heritage assets and services.

i-lab.aegean.gr



**Time
Machine**
Conference 2019



3D Visualization group: Machine Vision, 3D Graphics Technologies, Mixed Reality and Remote Sensing with ground and aerial media for the implementation of intelligent applications in Digital Culture

Lead: Prof. Christos-Nikolaos Anagnostopoulos (canag@aegean.gr), also Head of CTC department and i-Lab director



Computational Intelligence group: Artificial and computational intelligence, fuzzy systems, neural networks, neuro-fuzzy networks, evolutionary computation, deep neural networks, deep neuro-fuzzy networks, and statistical analysis of cultural data

Lead: Prof. George Tsekouras (gtsek@ct.aegean.gr)



(a) Original artwork



(b) As perceived by a protanope



(a)

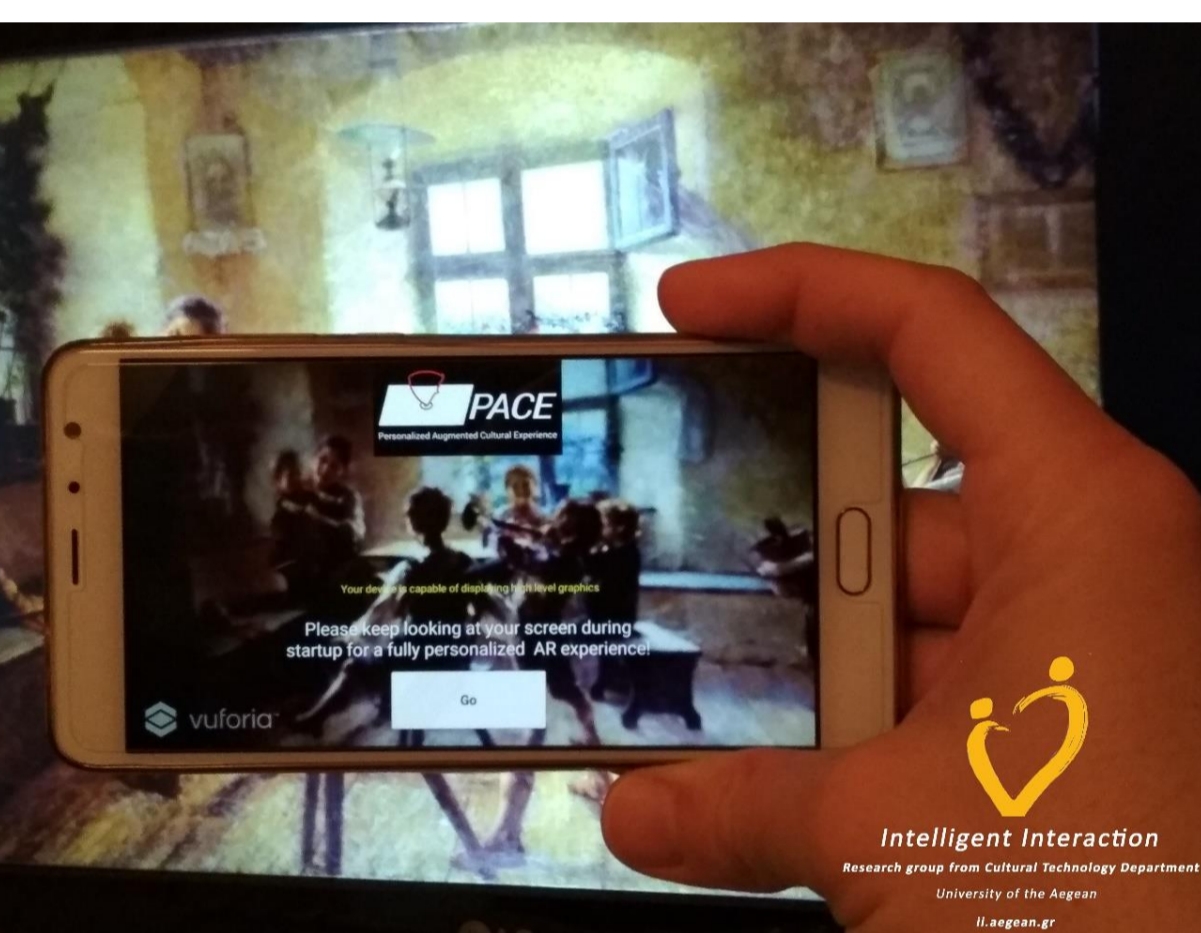


(b)



(c)

Painter: Jacob van Walscapelle. Title: A swag of flowers. Year: 1670s. (a) Original artwork, (b) protanope vision of the original artwork, (c) protanope vision after implementing the proposed method.

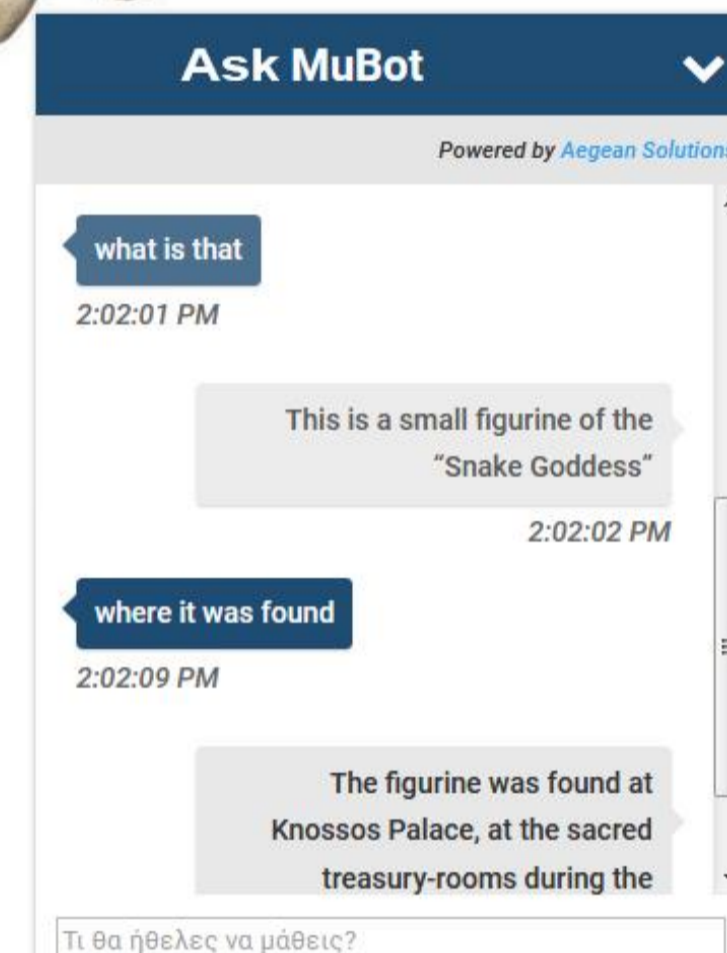
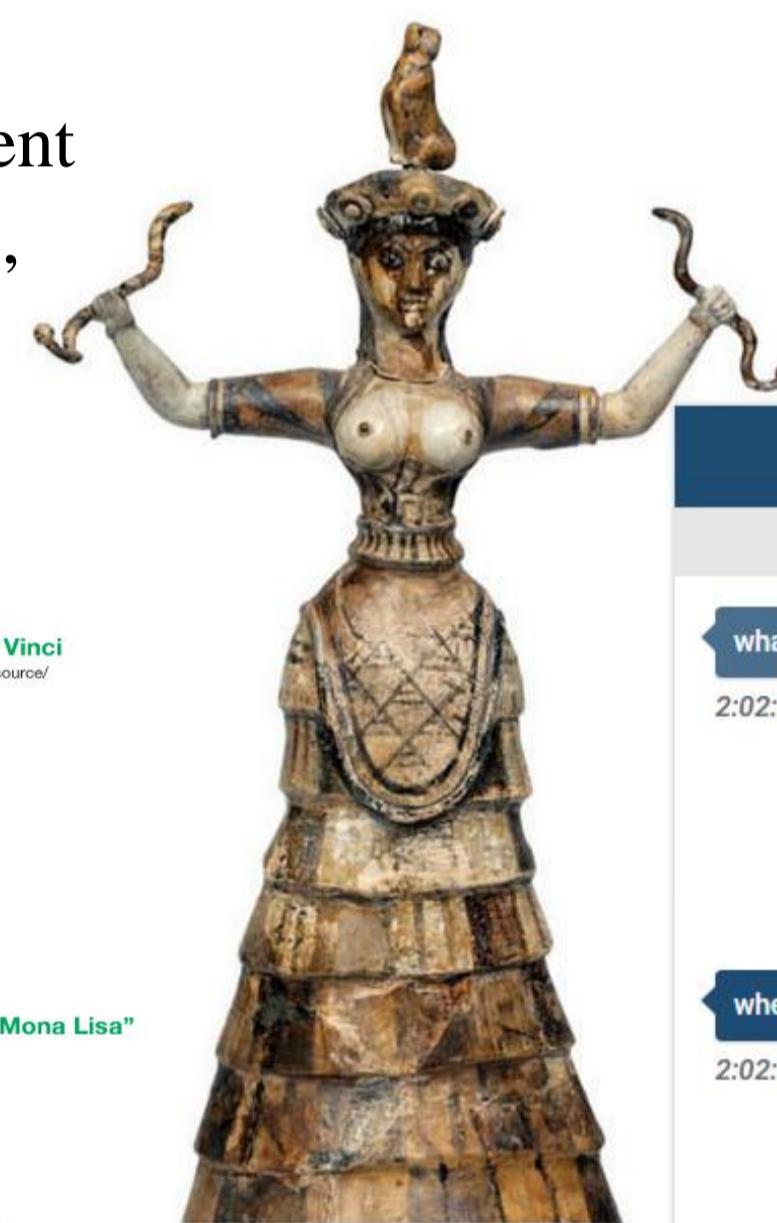
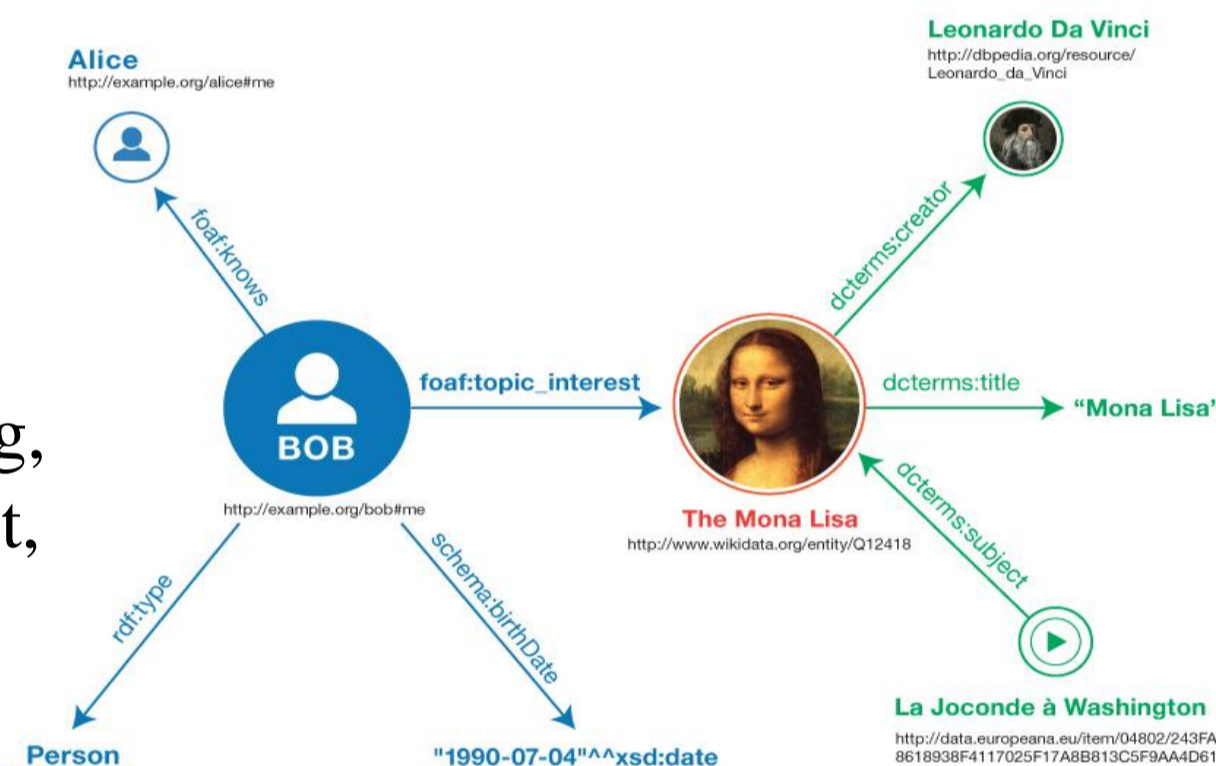


Intelligent Interaction group (<http://ii.ct.aegean.gr/>):

Affective Computing, Human Computer Interaction, Intelligent Systems, Cultural Heritage Management, Context Awareness, User Experience

Lead: Assist. Prof. George Caridakis (gcari@aegean.gr)

Knowledge Graph



Semantic Web and IoT group: Knowledge/Ontology Engineering, Semantic Web technologies, Semantic (cultural) Data Management, Semantic IoT, AI Chatbots for CH/Museums

Lead: Assist. Prof. Konstantinos Kotis (kotis@aegean.gr)

DigiArc: Cultural Digital Arc Greece - Cyprus: *preservation and promotion of the Medieval Cultural Heritage* in the island region of the Aegean and Cyprus. INTERREG V-A “Greece Cyprus 2014-2020”.

ReCult: Promotion and dissemination of cultural and natural heritage through the *development and institutional strengthening of Religious Tourism* in the island region of Greece and Cyprus. INTERREG V-A “Greece Cyprus 2014-2020”.

Color Enhancement CVD: *enhance color perception in digitized art paintings* for people suffering from Color Vision Deficiencies using recoloring mechanisms and deep-learning-based semantic image segmentation.

TRACCE: *ubiquitous platform for cultural routes* using cultural inventory of travelogue literature, the digital material of travelers and ICT, offering cultural interpretation services, combining the visit of an area with the acquaintance of the historically recorded and the contemporary touring experience.

MuBot: *AI chatbots for Cultural Heritage (CH) and Museums* in the era of Knowledge Graphs, combining data-driven and model-driven AI, towards “AI for near-human intelligence in museum chatbots”. Research topics include: Knowledge Graphs, Machine Learning, NLP.



European Union
Development Fund



ΕΣΠΑ
2014-2020
Πρόγραμμα Συμπράξης - Επένδυση
Partnership Agreement
2014 - 2020



ΕΡΑΝΕΚ 2014-2020
OPERATIONAL PROGRAMME
COMPETITIVENESS
ENTREPRENEURSHIP
INNOVATION



Ευρωπαϊκή Ένωση
European Social Fund



ΕΣΠΑ
2014-2020
Πρόγραμμα Συμπράξης - Επένδυση
Partnership Agreement
2014 - 2020



Operational Programme
Human Resources Development,
Education and Lifelong Learning
Co-financed by Greece and the European Union



Interreg
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Ευρωπαϊκό Ταμείο Περιφερειακής Ανάπτυξης
RE-CULT



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Ευρωπαϊκό Ταμείο Περιφερειακής Ανάπτυξης
DIGIARC



TRACCE
Travelogue with Augmented Cultural
and Contemporary Experience



HFRI
Hellenic Foundation for
Research & Innovation



GERT
GENERAL SECRETARIAT FOR
RESEARCH AND TECHNOLOGY

ΕΙΔΙΚΗ ΥΠΗΡΕΣΙΑ ΔΙΑΧΕΙΡΙΣΗΣ
ΕΠ ΠΕΡΙΦΕΡΕΙΑΣ ΒΟΡΕΙΟΥ ΑΙΓΑΙΟΥ



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