

International Study Visit, CERTH, Greece 11-13 Feb 2020

Middle East Technical University

Elif SÜRER

elifs@metu.edu.tr



International Study Visits of TARAL to EU Key Players

Organization

- Middle East Technical University (METU)
 - METU has 18 H2020 projects with a total budget of €71M where METU's share is €4.5M
 - METU has hosted 24 MSCA Individual Fellowships (as of FP6), 24 of which have already been completed with a budget of about €2.9M and two of ongoing projects with a budget over €320,00
 - METU has hosted 3 ERC Grants
 - At any given time, METU has approximately 400 R&D projects nationally funded by TÜBİTAK and various ministries and 60 R&D projects internationally sponsored, mainly by the EU Research and Innovation Framework Programmes



International Study Visits of TARAL to EU Key Players

Research interests

- Entertainment Computing and Interactive Systems Lab
 - Founded in 2016
 - 15 MSc Students, 3 PhD Students, 8 MSc Alumni
 - In Close Collaboration with:
 - Department of Architecture
 - Department of Archaeology
 - Department of Biology
 - Department of Information Systems
 - Department of Mining
 - Department of Psychology
 - Department Interior Design (Bilkent University)
 - International Collaborations:
 - University of Milan
 - University of Denmark
 - Colorado School of Mines
 - University of Sassari
 - University of Vienna
 - eNOTICE Consortium
 - REWIRE Consortium

International Study Visits of TARAL to EU Key Players

Research interests

- Research areas / activities

- Serious Games

- Stroke Rehabilitation, Neglect Syndrome, Down Syndrome, Dyslexia

- Virtual Reality and Augmented Reality

- Building Information Modelling, Basic Design

- Artificial Intelligence

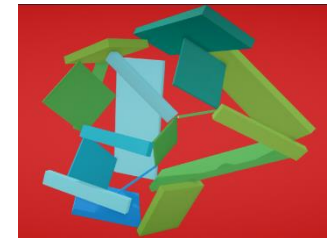
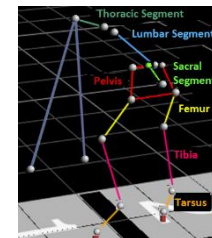
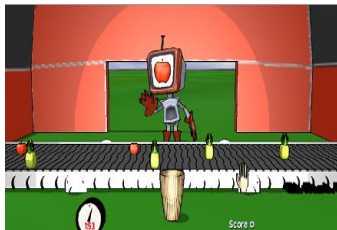
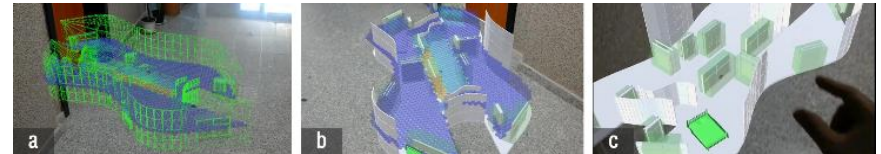
- Video Game Testing using Agents

- Machine Learning

- Neolithization of Anatolia

- Biomechanics

- Cerebral Palsy in Children, Degenerative Lumbosacral Stenosis in German Shepherd Dogs



International Study Visits of TARAL to EU Key Players

R&D References

eNOTICE (2017-now)

- Topic: Pan European Networks of practitioners and other actors in the field of security
- Title: European Network Of CBRN Training Centers
- Coordinator: Universite Catholique de Louvain
- Consortium
 - Catholic University of Louvain (UCL)
 - Campus Vesta (VESTA)
 - Seine-et-Marne District Fire and Rescue Department (SDIS 77)
 - Association pour la Recherche et le Développement des Méthodes et Processus Industriels (ARMINES)
 - City of Dortmund Fire Department (FDDO)
 - safety innovation center (SIC)
 - Joint CBRN Defence Centre of Excellence (JCBRN DEFENCE COE)
 - Middle East Technical University (METU)
 - University of Rome “Tor Vergata” (UNITOV)
 - National CBRN Centre (WMP)
 - War Studies University (CBRN Defence Training Centre, Faculty of Military Studies) (WSU)
 - Scientific and Research Centre for Fire Protection – National Research Institute (CNBOP-PIB)
- <https://www.h2020-enotice.eu/>



International Study Visits of TARAL to EU Key Players

R&D References

NEOGENE (2018-now)

- Topic: ERC Consolidator Grant
- Title: Archaeogenomic analysis of genetic and cultural interactions in Neolithic Anatolian societies
- Coordinator: Assoc. Prof. Mehmet Somel
- Team:
 - Assoc. Prof. Mehmet Somel
 - Prof. Yilmaz Selim Erdal
 - Asst. Prof. Elif Surer
 - Assoc. Prof. Cigdem Atakuman
 - Asst. Prof. Fusun Ozer
- <https://www.neogene.metu.edu.tr/>



International Study Visits of TARAL to EU Key Players

R&D References

REWIRE (2011-2014)

- Topic: Personal Health Systems (PHS)
- Title: Rehabilitative Wayout In Responsive home Environments
- Coordinator: University of Milan
- Consortium:
 - University of Milan
 - Ecole Polytechnique Federale de Lausanne (EPFL)
 - University of Oxford
 - University of Padova
 - Swiss Federal Institute of Technology Zurich
 - Ab.Acus
 - Fundación Progreso y Salud
 - Technogym
 - Bdigital
 - UniversitatsSpital Zurich
- <https://www.rewire-project.eu>



International Study Visits of TARAL to EU Key Players

Specific Topics and Calls

Mention the specific topics and calls you are interested in or you plan to work on.

Call - Digital transformation in Health and Care

- SC1-DTH-06-2020: Accelerating the uptake of computer simulations for testing medicines and medical devices
- SC1-DTH-04-2020: International cooperation in smart living environments for ageing people
- SC1-DTH-02-2020: Personalised early risk prediction, prevention and intervention based on Artificial Intelligence and Big Data technologies

International Study Visits of TARAL to EU Key Players

Specific Topics and Calls

Mention the specific topics and calls you are interested in or you plan to work on.

Call - Artificial Intelligence and Technologies for Digitising European Industry and Economy

- ICT-49-2020: Artificial Intelligence on demand platform
- ICT-38-2020: Artificial intelligence for manufacturing

Call - Digitising and transforming European industry and services: digital innovation hubs and platforms

- DT-ICT-12-2020: AI for the smart hospital of the future

International Study Visits of TARAL to EU Key Players

Collaboration Offer

What can I bring to a consortium?

- Expertise in serious gaming, virtual/augmented/mixed reality, machine learning and artificial intelligence
- Experience in both health- and ICT-based EU projects
- Plan to partner in the projects
- I am looking for participating to new calls and forming new collaborations

International Study Visits of TARAL to EU Key Players

Wrap-up

- Main expertise
 - Serious Gaming
 - Virtual Reality / Augmented Reality / Mixed Reality / Extended Reality
 - Machine Learning
- SC1-DTH-06-2020: Accelerating the uptake of computer simulations for testing medicines and medical devices
 - 3D Modeling, Simulation and XR interaction
 - H2020 eNOTICE - <https://www.h2020-enotice.eu/> (2017-now) Reusing the assets, scenario builder, Unity development and XR integration from the serious games developed for eNOTICE
- SC1-DTH-04-2020: International cooperation in smart living environments for ageing people & DT-ICT-12-2020: AI for the smart hospital of the future
 - Serious gaming, ICT applications for patients, bioengineering experience
 - FP7 REWIRE - <https://www.rewire-project.eu> (2013-2015) Experience with stroke and Neglect patients, multi-use serious game development, multi-sensorial interaction
- SC1-DTH-02-2020: Personalised early risk prediction, prevention and intervention based on Artificial Intelligence and Big Data technologies
 - Predictive analysis, adaptive systems
 - FP7 REWIRE and ERC NEOGENE <https://neogene.metu.edu.tr> (2018-now) Prediction based on DNA sequences and material culture data

International Study Visits of TARAL to EU Key Players

Elif Surer

Middle East Technical University

Multimedia Informatics

Turkey

+903122 107888
elifs@metu.edu.tr
<http://blog.metu.edu.tr/elifs>

International Study Visits of TARAL to EU Key Players