FIRST SCHOOL

ON SMART DATA PROCESSING AND SYSTEMS OF DEEP INSIGHT

DESTINI H2020 - TWINNING PROJECT

APRIL 12-16, 2021

ABOUT THE SCHOOL

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The school is part of the project's dissemination and communication strategy which has organized and structured to demonstrate different topics within the project's Joint Research Activities (JRAs). The school aims to share knowledge and project outcomes to facilitate discussions and exchange ideas between researchers, industrial and business stakeholders, governmental and decision-making bodies and the general public.

The school lasts five days and is divided into two sections: The first section lasts three days and is addressed to faculty members, project stakeholders and the general public. During the first section, the subjects and applications from European funded projects will be presented, and the case studies that came up through undergraduate theses. The second section lasts two days and is entirely dedicated to research topics, and is addressed to faculty members, PhD/MSc Students and researchers.

ONLINE EVENT

PROGRAM WILL BE ANNOUNCED SOON

DESTINI: *SMART DATA PROCESSING AND SYSTEMS OF DEEP INSIGHT*

TWINNING PROJECT - HORIZON2020

Smart Data ProcESsing and SysTems of Deep INsIght (DESTINI) is a H2020 Twinning Project that proposes a series of coordination and support actions for promoting research in the area of Smart Data. Cyprus University of Technology (CUT) joins forces with two internationally recognized scientific groups from the Netherlands (Tilburg University and Jheronymous Academy of Data Science) and Italy (Sapienza Universita di Roma), aiming to strengthen its research and scientific profile in the relevant area. Specifically, DESTINI's activities revolve around exchanging scientific knowledge and transferring the best research practices amongst its partners in the field of Smart Data Processing and Systems of Deep Insight.
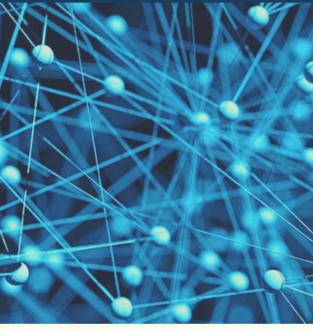

destini2020.eu

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Day 1 – Monday, April 12, 2021 (EEST Time)

09:00 – 09:30   Welcome – Overview of the DESTINI H2020 Twinning Project

Prof. Andreas S. Andreou (DESTINI coordinator, Dept. of Electrical Engineering, Computer Engineering & Informatics, CUT)

09:30 – 10:00   The SODALITE Project

Prof. Dario Di Nucci (Jheronymus Academy of Data Science)

10:00 – 10:30   CYENS Center of Excllence

Prof. George Chrysanthou (Research Director of CYENS, Dept. of Computer Science, University of Cyprus)

10:30 – 10:45   Break

10:45 – 11:05   The Nicosia Digital Twin Project

Prof. Vasos Vassiliou (Team Leader in CYENS, Dept. of Computer Science, University of Cyprus)

11:05 – 11:45   Digital Twin for Smart Hospital Management

Alexandros Christodoulou & Vassilis Andreou (Students, Dept. of Electrical Engineering, Computer Engineering & Informatics, CUT)

11:45 – 12:25   Smart Health Record Based on Digital Twins

Stelios Mappouras & Evangelos Georgiou (Students, Dept. of Electrical Engineering, Computer Engineering & Informatics, CUT)

12:25 – 12:30   Closing

Day 2 – Tuesday, April 13, 2021 (EEST Time)

09:00 – 09:30   Introduction to 5G & Introduction to Smart Cities (the Nicosia Use Case)

Niki Ioannou (Business Solutions – Cyta Business) & Pantelis Frangoulis (CYTA Sales & Business Development – Vertical Markets)

09:30 – 10:00   DataCloud H2020 Project

Prof. Andrea Marrella (Sapienza Università di Roma)

10:00 – 10:30   The Sea Traffic Management in the Eastern Mediterranean Project

Prof. Michailides Michalis (Dept. of Electrical Engineering, Computer Engineering & Informatics, CUT)

10:30 – 10:45   Break

10:45 – 11:05   Data-driven Applications for Optimized Sea Traffic Management

Prof. Herodotos Herodotou (Dept. of Electrical Engineering, Computer Engineering & Informatics, CUT)

11:05 – 11:25   Automated Machine Learning (AutoML): A practical Approach

Thomas Nikidiotis (Student, Dept. of Electrical Engineering, Computer Engineering & Informatics, CUT)

11:25 – 11:45   Smart data: IoT Context and Applications

Vassos Charalambous (Student, Dept. of Electrical Engineering, Computer Engineering & Informatics, CUT)

Day 2 – Tuesday, April 13, 2021 (EEST Time)

11:45 – 12:05   Smart Tourism: Processing Data from the Hotel Industry

Dr. Andreas Christoforou (Postdoc-Research Associate, SEIIS Lab, Dept. of Electrical Engineering, Computer Engineering & Informatics, CUT)

12:05 – 12:25   An Introduction to Smart Decentralized Applications

Dr. Panayiotis Christodoulou (Lecturer, Neapolis University Pafos / Postdoc-Research Associate, SEIIS Lab, Dept. of Electrical Engineering, Computer Engineering & Informatics, CUT)

12:25 – 12:30   Closing

School Program

Day 3 – Wednesday, April 14, 2021 (EEST Time)

09:00 – 09:30 EXCELSIOR H2020 Teaming Project

Dr. Christiana Papoutsa (Post-Doc / Research Fellow, Dept. of Civil Engineering & Geomatics, CUT)

09:30 – 10:00 The importance of Data Processing for the Water Board of Lemesos

Mr. Solomos Charalambous (Senior Technician Engineer, Water Board of Lemesos)

10:00 – 10:30 Establishment of the Bioinformatics ERA Chair at the Cyprus Institute of Neurology and Genetics – BIORISE

Prof. Kyproula Christodoulou (Head of Neurogenetics Department, Cyprus Institute of Neurology & Genetics)

10:30 – 10:45 Break

10:45 – 11:05 The Bioinformatics ERA Chair at CING: Research and Applications

Prof. George Spyrou (Head of Bioinformatics Department, Cyprus Institute of Neurology and Genetics)

11:05 – 11:25 The ERA Chair on Digital Cultural Heritage MNEMOSYNE

Dr. Kyriakos Efstathiou (Digital Cultural Heritage Lab, Dept. of Electrical Engineering, Computer Engineering & Informatics, CUT)

11:25 – 11:45 Digital 3D documentation of Cultural Heritage Objects

Dr. Kyriakos Efstathiou (Digital Cultural Heritage Lab, Dept. of Electrical Engineering, Computer Engineering & Informatics, CUT)

11:45 – 12:05   Smart Data Processing for Public Safety Through Image
                 and Video Analysis

                 *Kyriakos Aristidou (Student, Dept. of Electrical
                 Engineering, Computer Engineering & Informatics, CUT)*

12:05 – 12:25   Excelsior H2020 & Eratosthenes CoE Smart Applications

                 *Eleni Loulli, (PhD Candidate, Dept. of Civil Engineering and
                 Geomatics, CUT) & Maria Prodromou, (PhD Candidate,
                 Dept. of Civil Engineering and Geomatics, CUT)*

12:25 – 12:30   Closing

Day 4 – Thursday, April 15, 2021 (EEST Time)

09:00 – 09:45   Land Movement Estimation Over Archaeological Sites
Using Space (Sentinel-1) and GIS Technologies
*Despina Makri (Research Fellow Eratosthenis CoE – PhD
candidate, Dept. of Civil Engineering and Geomatics, CUT)*

09:45 – 10:30   Optimizing Big Data Processing Systems in
Heterogeneous Cluster Environments
*Prof. Herodotos Herodotou (Dept. of Electrical
Engineering, Computer Engineering & Informatics, CUT)*

10:30 – 10:45   Break

10:45 – 11:30   Blueprinting High-Performance Computing (HPC)
Dr. Indika Kumara (Jheronymus Academy of Data Science)

11:30 – 12:15   BPM and IoT
Prof. Massimo Mecella (Sapienza Università di Roma)

12:15 – 12:20   Closing

Day 5 – Friday, April 16, 2021 (EEST Time)

09:00 – 09:45 Network-based Bioinformatics Enhance our Understanding of Molecular Pathology and our Capabilities for Drug Repurposing Against Diseases

Prof. George Spyrou (Head of Bioinformatics Department, Cyprus Institute of Neurology and Genetics)

09:45 – 10:30 Event Detection and Localization Algorithms for Smart Systems

Prof. Michalis Michailides (Dept. of Electrical Engineering, Computer Engineering & Informatics, CUT)

10:30 – 10:45 Break

10:45 – 11:30 Automatic Synthesis in Industry 4.0

Prof. Francesco Leotta (Sapienza Università di Roma)

11:30 – 12:15 AI-enabled and Data-driven Privacy Preservation in the Dutch Telecom (KPN)

Nemania Borovits (PhD Candidate, Jheronymus Academy of Data Science)

12:15 – 12:20 Closing