

DESTINI H2020 - TWINNING PROJECT

# SECOND SCHOOL

ON SMART DATA PROCESSING AND SYSTEMS OF DEEP INSIGHT

JANUARY 24-28, 2022



## ONLINE EVENT

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## ABOUT THE SCHOOL

This event is the second part of a series of schools and workshops organized by DESTINI on Smart Data and it is aligned with the project's dissemination and communication strategy. The latter has been organized and structured to present different scientific topics within the project's Joint Research Activities (JRAs) and demonstrate their benefits to real cases. This school aims to share knowledge developed in the project and to facilitate discussions, as well as exchange of expertise, between researchers, industrial and business stakeholders, governmental and decision-making bodies and the general public.

The duration of the school is five days. It comprises various talks and presentations that mainly target industrial and market stakeholders. During its sessions, the school covers a variety of topics and scientific areas which offer solutions to real-world problems and challenges, and demonstrate how applied research can benefit businesses, researchers, project stakeholders and the general public. The talks are delivered by DESTINI's partners and other project collaborators.



## ABOUT DESTINI

# 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. The Cyprus University of Technology (CUT) joins forces with two internationally recognized scientific groups from the Netherlands (Tilburg University and Jheronimus Academy of Data Science) and Italy (Sapienza Università 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 best research practices amongst its partners in the field of Smart Data Processing and Systems of Deep Insight.



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## Day 1 – Monday, January 24, 2022 (EET Time)

- 09:30 - 09:50**      **Welcome - Introduction**  
*Prof. Andreas S. Andreou (DESTINI coordinator, Dept. of Electrical Engineering, Computer Engineering & Informatics, CUT)*
- 09:50 - 10:30**      **Big Data: Methods and Technologies - Part A**  
*Prof. Donatella Firmani (Dept. of Statistical Sciences, Sapienza Università di Roma)*
- 10:30 - 11:10**      **Big Data: Methods and Technologies - Part B**  
*Prof. Donatella Firmani (Dept. of Statistical Sciences, Sapienza Università di Roma)*
- 11:10 - 11:20**      **Break**
- 11:20 - 11:40**      **Argumentation-based Framework for Explainable Machine Learning (ARGEML)**  
*Nicoletta Prentzas (PhD Candidate, University of Cyprus)*
- 11:40 - 12:00**      **Preliminary Findings on the Virtual Reality Cognitive Gaming Based on Brain Computer Interfacing**  
*Marios Hadjjaros (Researcher, CYENS, PhD Candidate, University of Cyprus)*
- 12:00 - 12:40**      **Blockchain Applications - Part A**  
*Prof. Claudio Di Ciccio (Dept. of Computer Science, Sapienza Università di Roma)*
- 12:40 - 13:20**      **Blockchain Applications - Part B**  
*Prof. Claudio Di Ciccio (Dept. of Computer Science, Sapienza Università di Roma)*



## Day 2 – Tuesday, January 25, 2022 (EET Time)

- 09:30 - 10:10**     **Virtual Reality and Gamification - Part A**  
*Prof. Lauren Ferro (Dept. of Computer, Control and Management Engineering, Sapienza Università di Roma) & Dr. Francesco Sapia (Sapienza Università di Roma)*
- 10:10 - 10:50**     **Virtual Reality and Gamification - Part B**  
*Prof. Lauren Ferro (Dept. of Computer, Control and Management Engineering, Sapienza Università di Roma) & Dr. Francesco Sapia (Sapienza Università di Roma)*
- 10:50 - 11:10**     **Rule Extraction in the Assessment of Brain MRI Lesions in Multiple Sclerosis: Preliminary Findings**  
*Andria Nicolaou (PhD Candidate, University of Cyprus)*
- 11:10 - 11:20**     **Break**
- 11:20 - 12:00**     **Privacy preservation - Reports from a Dutch Telecom**  
*Nemania Borovits (PhD Candidate, Tilburg University)*
- 12:00 - 12:30**     **Digital Twin in Electrical Spindles**  
*Gianluca Drudi (HSD Mechatronics)*
- 12:30 - 13:10**     **Query Answering and Query Abstraction Through Ontologies - Part A**  
*Prof. Maurizio Lenzerini (Dept. of Computer, Control and Management Engineering, Sapienza Università di Roma)*
- 13:10 - 13:50**     **Query Answering and Query Abstraction Through Ontologies - Part B**  
*Prof. Maurizio Lenzerini (Dept. of Computer, Control and Management Engineering, Sapienza Università di Roma)*



## Day 3 – Wednesday, January 26, 2022 (EET Time)

- 09:00 - 09:40**      **Complex Patterns of Biological Information Decoded with Network-based Bioinformatics**  
*Prof. George Spyrou (Head of Bioinformatics Department, Cyprus Institute of Neurology and Genetics)*
- 09:40 - 10:20**      **Enhanced Berth Allocation Using the Cuckoo Search Algorithm**  
*Sheraz Aslam (PhD Candidate, Research Associate, CUT)*
- 10:20 - 11:00**      **skillsChain: A Decentralized Application that Uses Educational Robotics and Blockchain to Disrupt the Educational Process**  
*Prof. Panayiotis Christodoulou (Neapolis University Pafos / Postdoc-Research Associate, SEIIS Lab, Dept. of Electrical Engineering, Computer Engineering & Informatics, CUT)*
- 11:00 - 11:10**      **Break**
- 11:10 - 11:50**      **Unmanned Surface Vehicle for Marine Applications**  
*Prof. Yiorgos Demetriou (Dept. of Electrical Engineering, Computer Engineering and Informatics, Frederick University Cyprus)*
- 11:50 - 12:30**      **Transformation in Traditional Industry: Die Cutter 4.0**  
*Jerin George Mathew (Sapienza Università di Roma) & Flavia Monti (PhD Candidate, Sapienza Università di Roma)*
- 12:30 - 13:10**      **Data Driven Detection and Biological Control of Food Borne Pathogens: The Case of Mycobacterium Avium Subspecies Paratuberculosis**  
*Prof. George Botsaris (Dept. of Agricultural Sciences, Biotechnology and Food Science, CUT)*



## Day 4 - Thursday, January 27, 2022 (EET Time)

- 09:00 - 09:40**      **Computer Graphics - Animation**  
*Prof. Stephania Loizidou (Dept. of Electrical Engineering, Computer Engineering and Informatics, Frederick University)*
- 09:40 - 10:20**      **The Art of Process Mining**  
*Elia Kouzari (Assistant Manager, KPMG)*
- 10:20 - 11:00**      **The Case Study of OVER Technologies**  
*Adriano Cerocchi (CEO OVER technologies)*
- 11:00 - 11:10**      **Break**
- 11:10 - 11:50**      **Integrating the Internet of Things in Real-life Scenarios**  
*Prof. Lambros Lambrinos (Dept. of Communication and Internet Studies, CUT)*
- 11:50 - 12:30**      **Business Process Management and Process Mining - Part A**  
*Prof. Massimo Mecella (Dept. of Computer, Control and Management Engineering, Sapienza Università di Roma) &  
Prof. Francesco Leotta (Dept. of Computer, Control and Management Engineering, Sapienza Università di Roma)*
- 12:30 - 13:10**      **Business Process Management and Process Mining - Part B**  
*Prof. Massimo Mecella (Dept. of Computer, Control and Management Engineering, Sapienza Università di Roma) &  
Prof. Francesco Leotta (Dept. of Computer, Control and Management Engineering, Sapienza Università di Roma)*



## Day 5 - Friday, January 28, 2022 (EET Time)

- 09:00 - 09:40** **The WaterAnalytics Digital Twin**  
*George Milis (Director and Innovations Manager, PHOEBE Research & Innovation)*
- 09:40 - 10:20** **PandoraSEAL: An AI-based Decision Support Tool for the Selection of Non-Pharmaceutical Interventions During Pandemics**  
*Demetrianos Gavriel (Data Analytics Expert, PHOEBE Research & Innovation)*
- 10:20 - 10:40** **Ultrasound Carotid Plaque Video Data Analysis for the Estimation of the Risk of Stroke**  
*Georgia Liapi (PhD Candidate, CUT)*
- 10:40 - 11:00** **An Adaptive Semi-Automated Integrated System for Multiple Sclerosis Lesion Segmentation in Longitudinal MRI Scans Based on a Convolutional Neural Network**  
*Andreas Georgiou (MSc, University of Cyprus)*
- 11:00 - 11:10** **Break**
- 11:10 - 11:50** **The Service Paradigm Rebound: Data Products, Meshes & Markets**  
*Prof. Willem-Jan van den Heuvel (Jheronimus Academy of Data Science, Tilburg University) &  
Prof. Geert Monsieur (Dept. of Data Engineering, Tilburg University)*
- 11:50 - 12:30** **Demystifying Non-Fungible Tokens (NFTs)**  
*Prof. Klitos Christodoulou (Dept. of Digital Innovation, University of Nicosia)*
- 12:30 - 13:10** **Web-based Real-time Monitoring and Modeling of Managed Aquifer Recharge Applications**  
*Dr. Constantinos Panagiotou (Researcher, Excelsior - Eratosthenis CoE, CUT)*