DESTINI

SMART DATA PROCESSING AND SYSTEMS OF DEEP INSIGHT

http://www.destini2020.eu

DESTINI

Smart Data Processing and Systems of Deep Insight

Deliverable D6.7

Project Dissemination Support Material 2

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2.0	27/10/2021	Panayiotis Christodoulou, Spyros Loizou, Michalis Pingos, Andreas Christoforou	Additions and corrections
3.0	10/11/2021	Andreas Andreou	First review
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5.0	25/11/2021	Andreas Andreou	Second review
6.0	13/12/2021	Panayiotis Christodoulou, Spyros Loizou, Michalis Pingos, Andreas Christoforou, Stelios Mappouras	Corrections and additions
7.0	20/12/2021	Andreas Andreou	Final review
8.0	10/01/2022	Partners	Final review & approval

Contents

1. Introduction

1.1 Purpose

This deliverable provides information about additional dissemination material, such as project leaflets, brochures, electronic articles, etc., for the second year of the project (01/10/2020) until (31/9/2021).

The deliverable is part of Work Package 6 (WP6) - Dissemination and Exploitation that describes how the work conducted in this project will be disseminated to academia, researchers, industrial and businesses stakeholders, and the general public, demonstrating how they can benefit from the DESTINI's knowledge base and preliminary research results, and supporting sustainable engagement of SMEs and practitioners in WP4 for future research activities and project discoveries.

1.2 Definitions, Acronyms, and Abbreviations

CUT: Cyprus University of Technology

KKA: Key Knowledge Areas

WP: Work Package

JRA: Joint Research Area

1.3 Overview

The rest of the document is structured as follows: Section 2 presents the leaflets produced for the project, while section 3 outlines the invitations created for the mini-schools and trainings. Section 4 presents the posters/banners created in the project, and, finally, section 5 concludes the document.

2. Leaflets

2.1 Project Dissemination & Research Pillars

DESTINI
Smart Data Processing and Systems of Deep Insight
Twinning | Horizon 2020

About Destini

DESTINI H2020 Twinning Project proposes a series of coordination and support actions for promoting research in the area of Smart Data. It brings together two internationally recognized scientific groups from the Netherlands (Tilburg University and Jheronymous Academy of Data Science - ERISS/JADS) and Italy (Sapienza Universita di Roma – UNIROMA1) that collaborate with Cyprus University of Technology (CUT) so as to strengthen CUT's research and scientific profile in the relevant area.

Aim

The aim of DESTINI is to facilitate transfer of scientific knowledge and expertise, as well as of best research practices from the leading institutions to CUT. The ultimate goal is that the research group of CUT increases its research capacity and prowess, by investigating a number of significant and hot topics in the field of Smart Data Processing and Systems of Deep Insight.
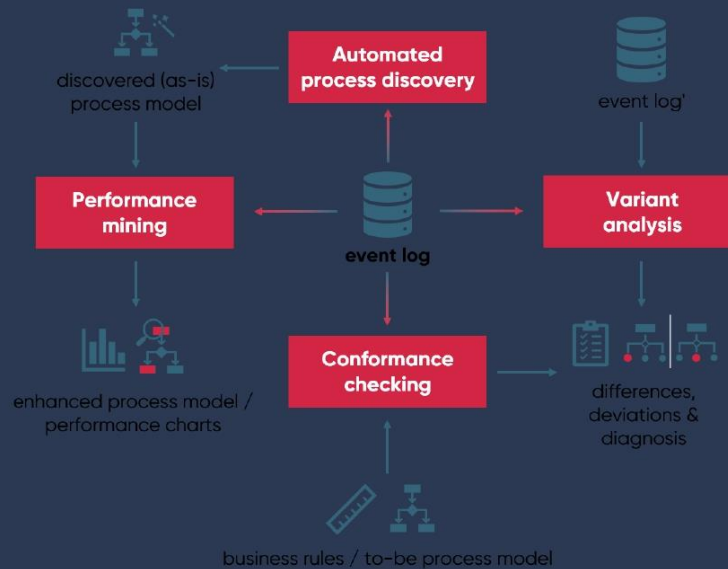
Research Areas

Data Lakes

- Query sources and create SPARQL subgraphs using Visual Querying
- Characterize/ build blueprints of the data sources using Visual Querying
- Apply algorithms (classification) during the process of selecting sources based on their features and options
- Run the process continuously by renewing the subgraph
- Utilize this approach after data sources are ingested in a Data Lake
- Use blockchain in Data Lakes to address one of the most important challenges according to literature, that is, Security, Privacy and Data Governance
- Utilization of algorithms such as top k-means after data sources are ingested in the Data Lake

Research Areas (...continued)

Business Process Mining

- Perform process discovery and model creation
- Analysis of the business process based on event logs
- Conformance checking
- Pre-define goals for optimization
- Evolution - enhancement of a business process using machine learning
- Applications in smart manufacturing and/or the health sector

Research Areas (...continued)
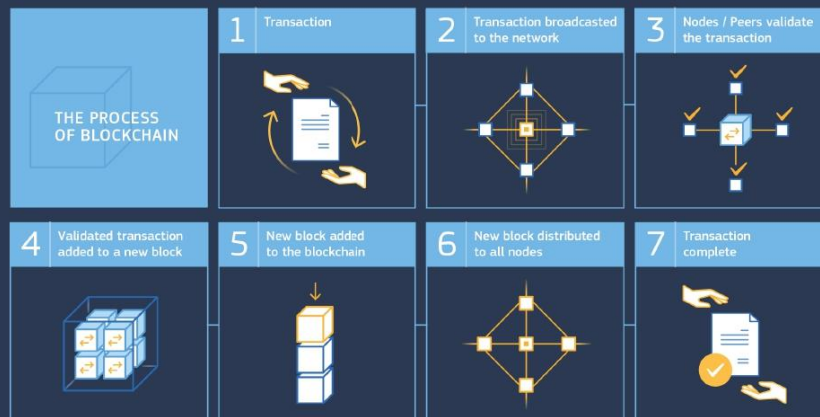
Digital Twins

- Experimental digital twins for smart manufacturing
- Interactive visualization of physical entities
- Interaction between physical and virtual worlds
- Predictions based on real-world data from physical entities
- Graphical representation of real-world data on digital twins
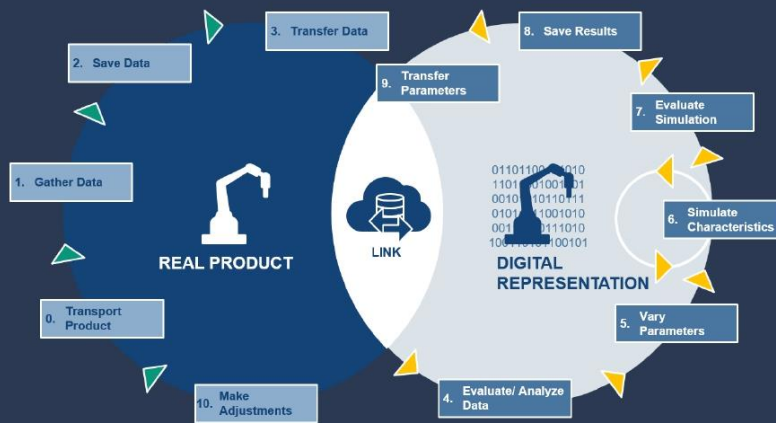
Research Areas (...continued)

Blockchain

- Experimental Digital Twins in Blockchain
- Physical Entities as NFTs
- NFTs and Smart Contracts in a 3D environment
- Blockchain and BPM activities
- Blockchain and Data Lakes

THE PROCESS OF BLOCKCHAIN

1 Transaction
2 Transaction broadcasted to the network
3 Nodes / Peers validate the transaction
4 Validated transaction added to a new block
5 New block added to the blockchain
6 New block distributed to all nodes
7 Transaction complete

Cyprus University of Technology

SAPIENZA Università di Roma

TILBURG UNIVERSITY

JADS Jheronimus Academy of Data Science

Consortium

HORIZON 2020

Cyprus University of Technology

SAPIENZA Università di Roma

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JADS
Jheronimus Academy of Data Science

TWINNING

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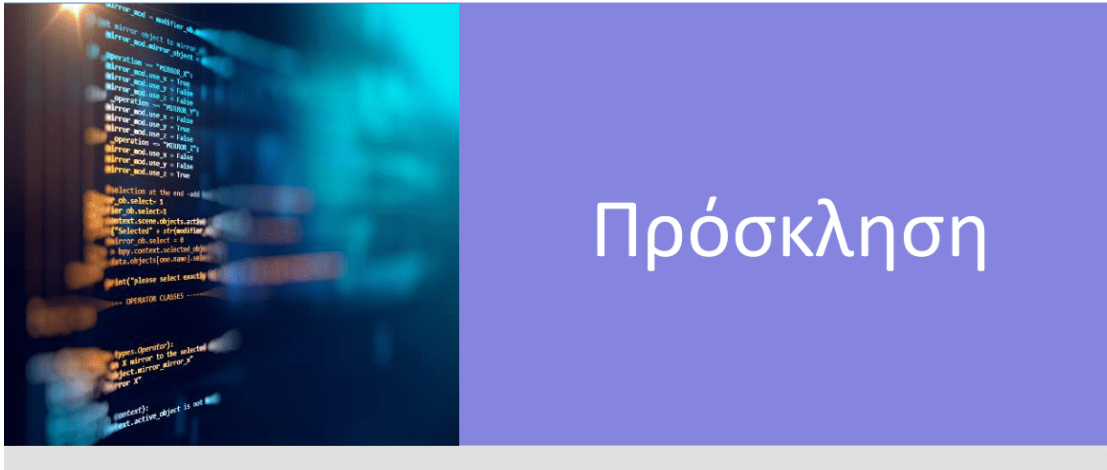
3. Invitations

3.1 First Training from Tilburg University / JADS

DESTINI
Smart **D**ata Proc**ES**sing and Sys**T**ems
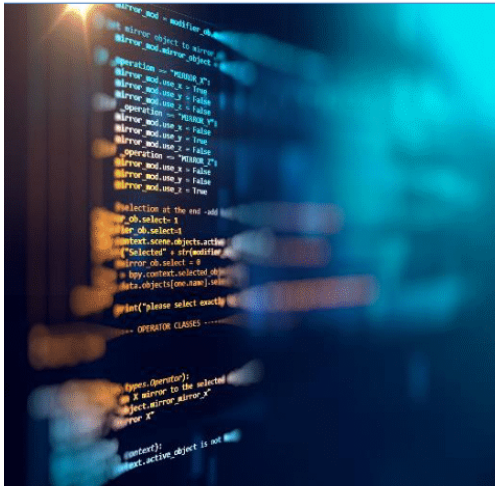of Deep **IN**sIght

**Εισαγωγή στην Έξυπνη
Φροντίδα Υγείας**

**Τρίτη
22 Δεκεμβρίου 2020**

Διαδικτυακή Συνεδρία

Το Τμήμα Ηλεκτρολόγων Μηχανικών, Μηχανικών Υπολογιστών και Πληροφορικής του Τεχνολογικού Πανεπιστημίου Κύπρου και η κοινοπραξία του χρηματοδοτούμενου από την ΕΕ έργου DESTINI (HORIZON-2020) σας προσκαλούν να παρακολουθήσετε το πρώτο σεμινάριο της σειράς εκπαιδευτικών δραστηριοτήτων του έργου σχετικά με την Έξυπνη Φροντίδα Υγείας.

Cyprus
University of
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Πληροφορίες: 25 00 25 33
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DESTINI
Smart **D**ata Proc**ES**sing and Sys**T**ems
of Deep **IN**sI**ght**

HORIZON 2020

Invitation

Introduction in Smart Healthcare

Tuesday
22 December 2020

Online Sessions

The Department of Electrical Engineering, Computer Engineering and Informatics of the Cyprus University of Technology, and the consortium of the EU funded project DESTINI (HORIZON-2020) cordially invite you to attend the first seminar of the training activities of the project on Smart Healthcare.

Cyprus
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Technology

Information: 25 00 25 33
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SEiIS
Software Engineering and Intelligent
Information Systems Research Lab

Program

**Tuesday,
December 22**

16:00 – 16:05 – Welcome and Agenda
(Willem-Jan van den Heuvel)

16:05 – 17:00 – SODALITE presentation
(Indika Kumara)

17:00 – 17:55 – Smart Data and Systems in Healthcare
(Mike Papazoglou)

17:55 – 18:00 – Closure
(Willem-Jan van den Heuvel)

Short Bio

Mike Papazoglou

Prof. dr. ir. Michael P. Papazoglou is a highly acclaimed academic with noteworthy experience in areas of education, research and leadership pertaining to computer science, information systems, industrial engineering and digital manufacturing. He is the executive director of the European Research Institute in Service Science (ERISS) and was the scientific director of the acclaimed Network of Excellence in Software Systems and Services (S-CUBE). Papazoglou is noted as one of the original promulgators of 'service-oriented computing' and is renowned for establishing local 'pockets of research excellence' in service science and engineering in several countries around the world. He is a contributor of pioneering innovations and first-rate science for resolving key scientific problems pertaining to research in software development, software engineering, distributed and cloud computing, large data-scale integration, web services, smart data and applications.

Papazoglou is an author of the most highly cited papers in the area of service engineering and web services worldwide with a record of publishing 23 (authored and edited) books, and over 200 prestigious peer-refereed papers along with over 16,000 citations (H-index factor 52). He is a distinguished/honorary professor with an exemplary teaching and R&D record at 11 universities around the globe. He has delivered over 35 keynote addresses since 2000 and chaired 12 prestigious international conferences.

He is a member of several national scientific boards around the world and has extensive experience in forging international links world-wide and leading large scale collaborative research projects involving large numbers of researchers and industry professionals that resulted in the development of cutting edge innovations.

Short Bio

Indika Kumara

He is a post-doc at Jheronimus Academy of Data Science / Tu/e. he was also a researcher at Swinburne University of Technology, Australia and Tilburg University. He was a senior lecturer at University of Moratuwa, Sri Lanka. He received his PhD (2016) from Swinburne, and BSc (2007) and MSc (2010) from Moratuwa. He worked at WSO2 Lanka for 5 years, where actively contributed to some WSO2 and Apache projects. He have a huge passion for science, sports (especially, football), and good literature. I have an endless desire for really knowing anything he do not know.

Willem-Jan van den Heuvel

Prof. dr. Willem-Jan van den Heuvel is a full professor in Information Systems and managing director of the European Research Institute of Services Science (ERISS). His research interests are at the cross-junction of software service systems and business process management with an emphasis on (global) networked enterprises. In particular, his expertise revolves around the following major research themes: business process management, Big data analytics, service engineering (including service governance) and legacy system modernization.

Consortium

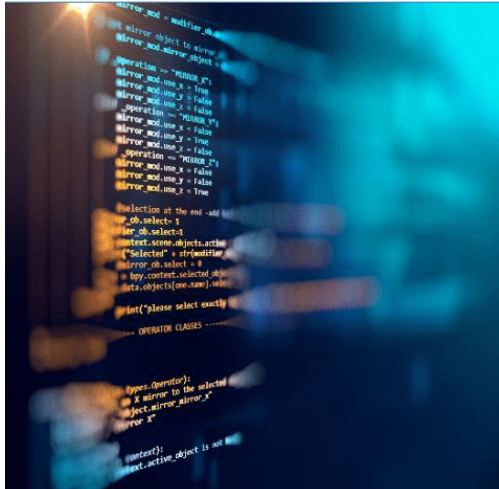www.destini2020.eu

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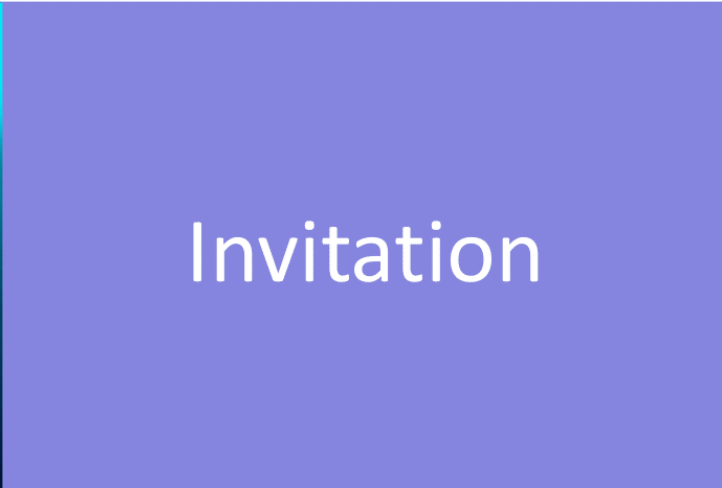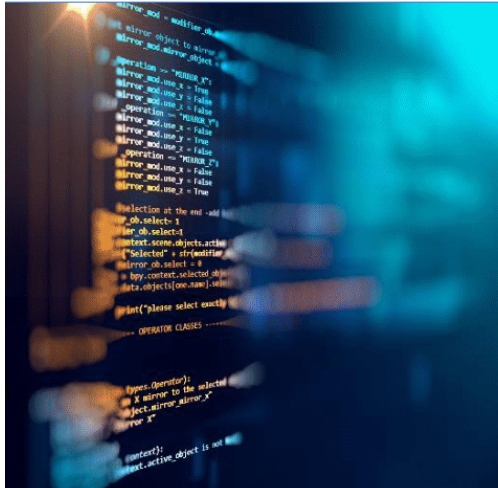of Deep INsIght

HORIZON 2020

Πρόσκληση

**Εισαγωγή στην Έξυπνη
Φροντίδα Υγείας**

**Τετάρτη
27 Ιανουαρίου 2021**

Διαδικτυακή Συνεδρία

Το Τμήμα Ηλεκτρολόγων Μηχανικών, Μηχανικών Υπολογιστών και Πληροφορικής του Τεχνολογικού Πανεπιστημίου Κύπρου και η κοινοπραξία του χρηματοδοτούμενου από την ΕΕ έργου DESTINI (HORIZON-2020) σας προσκαλούν να παρακολουθήσετε το δεύτερο μέρος του πρώτου σεμιναρίου της σειράς εκπαιδευτικών δραστηριοτήτων του έργου σχετικά με την Έξυπνη Φροντίδα Υγείας.

Cyprus University of Technology

Πληροφορίες: 25 00 25 33
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Software Engineering and Intelligent
Information Systems Research Lab

DESTINI
Smart Data ProcESsing and SysTems of Deep INsIght

HORIZON 2020

Invitation

Introduction in Smart Healthcare

**Wednesday
27 January 2021**

Online Sessions

The Department of Electrical Engineering, Computer Engineering and Informatics of the Cyprus University of Technology, and the consortium of the EU funded project DESTINI (HORIZON-2020) cordially invite you to attend the second part of the first seminar of the training activities of the project on Smart Healthcare.

Cyprus University of Technology

Information: 25 00 25 33
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SEiIS
Software Engineering and Intelligent Information Systems Research Lab

Program

12:00 – 12:05 – Welcome

12:05 – 13:00 – Smart Data and Systems in Healthcare
(Mike Papazoglou)

13:00 – 13:30 – Discussion / Closure

Short Bio

Mike Papazoglou

Prof. dr. ir. Michael P. Papazoglou is a highly acclaimed academic with noteworthy experience in areas of education, research and leadership pertaining to computer science, information systems, industrial engineering and digital manufacturing. He is the executive director of the European Research Institute in Service Science (ERISS) and was the scientific director of the acclaimed Network of Excellence in Software Systems and Services (S-CUBE). Papazoglou is noted as one of the original promulgators of 'service-oriented computing' and is renowned for establishing local 'pockets of research excellence' in service science and engineering in several countries around the world. He is a contributor of pioneering innovations and first-rate science for resolving key scientific problems pertaining to research in software development, software engineering, distributed and cloud computing, large data-scale integration, web services, smart data and applications.

Papazoglou is an author of the most highly cited papers in the area of service engineering and web services worldwide with a record of publishing 23 (authored and edited) books, and over 200 prestigious peer-refereed papers along with over 16,000 citations (H-index factor 52). He is a distinguished/honorary professor with an exemplary teaching and R&D record at 11 universities around the globe. He has delivered over 35 keynote addresses since 2000 and chaired 12 prestigious international conferences.

He is a member of several national scientific boards around the world and has extensive experience in forging international links world-wide and leading large scale collaborative research projects involving large numbers of researchers and industry professionals that resulted in the development of cutting edge innovations.

Short Bio

Andreas Andreou

Andreas Andreou is a Professor in the Department of Electrical Engineering & Information Technologies. He completed his undergraduate and graduate studies at the University of Patras, Greece, School of Engineering, Dept. of Computer Engineering and Informatics (B.Sc 1993, Ph.D 2000). He has worked in the IT industry for 5 years (Greece, 1994-1999) holding the posts of Programmer-Analyst, Head of the Requirements Analysis & Development dept. and IT Consultant in Banking Systems. He was member of the faculty of the School of Pure and Applied Sciences, Dept. of Computer Science, University of Cyprus, for 8 years (Lecturer, 2002-2006; Assistant Professor, 2006-2009), where he was also Director of the Software Engineering and Intelligent Information Systems Research Lab.

He served as Software Engineering and IT consultant in several major software projects in Cyprus including the Integrated Software System for the New Nicosia General Hospital, the Cyprus Cultural Portal (Ministry of Education and Culture), as well as software systems supporting the Larnaka Water Board, the Agricultural Research Institute, the University of Cyprus and the Neapolis University in Paphos. His research interests include Software Engineering, Web Engineering and Mobile Software Engineering, Computational Intelligence in Software Engineering and Intelligent Information Systems.

Consortium

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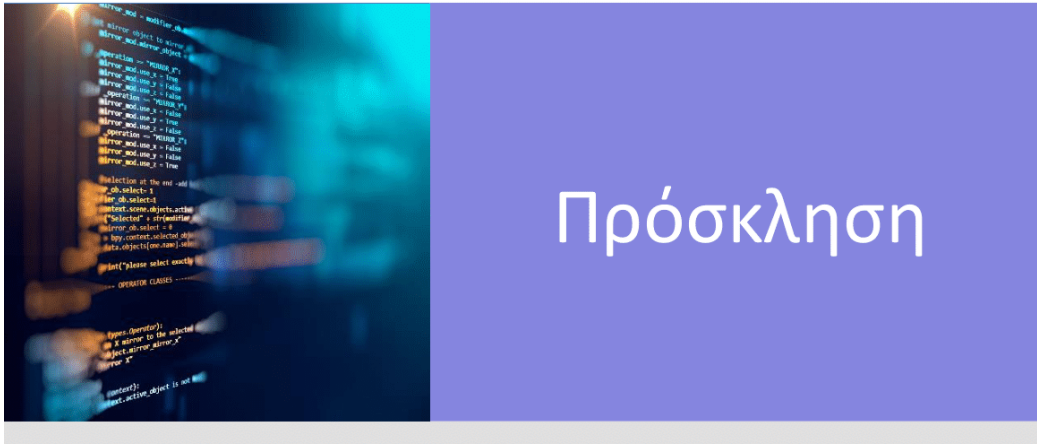
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3.3 Third Training from Tilburg University / JADS

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Πρόσκληση

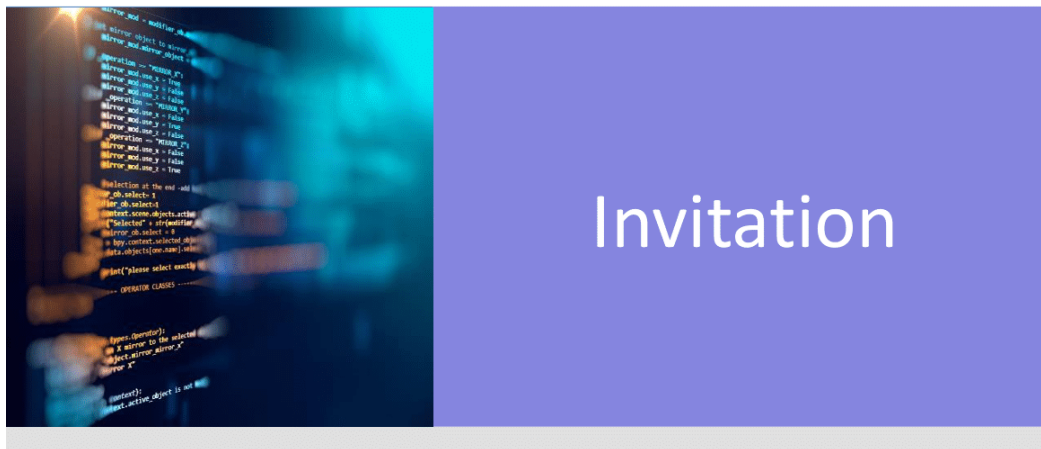**Αξιοποίηση ανθρώπινων παραγόντων στη συντήρηση και εξέλιξη λογισμικού**

Δευτέρα
19 Ιουλίου 2021

Διαδικτυακή Συνεδρία

Το Τμήμα Ηλεκτρολόγων Μηχανικών, Μηχανικών Υπολογιστών και Πληροφορικής του Τεχνολογικού Πανεπιστημίου Κύπρου και η κοινοπραξία του χρηματοδοτούμενου από την ΕΕ έργου DESTINI (HORIZON-2020) σας προσκαλούν να παρακολουθήσετε το πρώτο σεμινάριο της σειράς εκπαιδευτικών δραστηριοτήτων του έργου σχετικά με την Έξυπνη Φροντίδα Υγείας.

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HORIZON 2020

Invitation

Exploiting human factors in software maintenance and evolution

**Monday
19 July 2021**

Online Sessions

The Department of Electrical Engineering, Computer Engineering and Informatics of the Cyprus University of Technology, and the consortium of the EU funded project DESTINI (HORIZON-2020) cordially invite you to attend the first seminar of the training activities of the project on Smart Healthcare.

Cyprus
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Information: 25 00 25 33
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SEIIS
Software Engineering and Intelligent
Information Systems Research Lab

Program

14:00 – 16:00 – Exploiting human factors in software maintenance
and evolution
(Gemma Catolino)

Short Bio

Gemma Catolino

Dr. Gemma Catolino is a postdoctoral researcher at the Jheronimus Academy of Data Science, a collaboration between Tilburg University and Eindhoven Technical University, with Prof. Willem-Jan Van Den Heuvel. In 2020, she received the European Ph.D. Degree from the University of Salerno, advised by Prof. Filomena Ferrucci. She received (magna cum laude) the Master's Degree in Management and Information Technology from the University of Salerno (Italy) in 2016 defending a thesis on Software Quality Metrics, advised by Prof. Filomena Ferrucci. She got the Bachelor's Degree in Computer Science from the University of Molise in 2014 defending a thesis on Software Program Comprehension proposed by Prof. Rocco Oliveto.

Consortium

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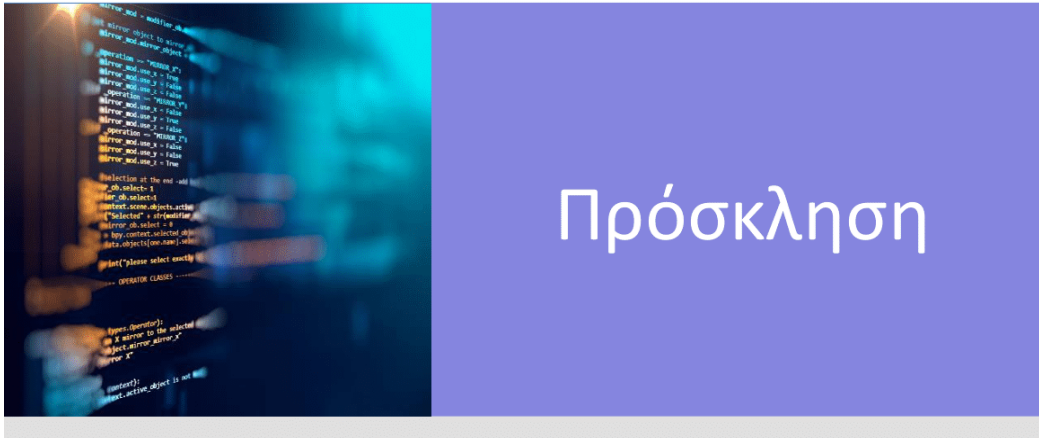
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3.4   Fourth Training from Sapienza Università di Roma

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of Deep **IN**s**I**ght

Πρόσκληση

**Προκλήσεις Ενσωμάτωσης
Δεδομένων**

**Τρίτη
5 Οκτωβρίου 2021**

**Διαδικτυακό Εκπαιδευτικό
Σεμινάριο**

**Η ομιλία θα πραγματοποιηθεί
μέσω τηλεδιάσκεψης. Παρακαλώ
χρησιμοποιήστε τον παρακάτω
σύνδεσμο για να παρευρεθείτε:**

**https://webmeetings-
node1.cut.ac.cy/b/and-uts-lja-wze**

Το Τμήμα Ηλεκτρολόγων Μηχανικών, Μηχανικών
Υπολογιστών και Πληροφορικής του Τεχνολογικού
Πανεπιστημίου Κύπρου και η κοινοπραξία του
χρηματοδοτούμενου από την ΕΕ έργου DESTINI
(HORIZON-2020) σας προσκαλούν να
παρακολουθήσετε το πρώτο σεμινάριο της σειράς
εκπαιδευτικών δραστηριοτήτων του έργου σχετικά
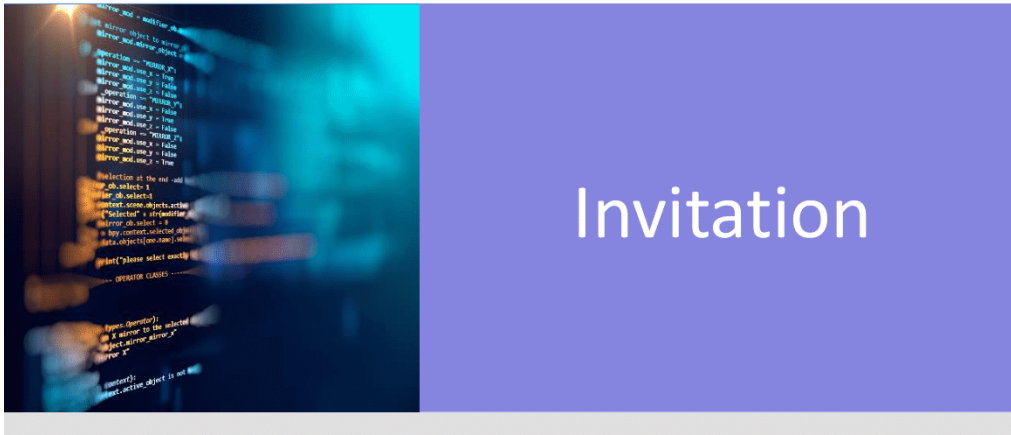με τις προκλήσεις ενσωμάτωσης δεδομένων.

**Cyprus
University of
Technology**

Πληροφορίες: 25 00 25 33
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SEiIS
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Information Systems Research Lab

Invitation

Data Integration Challenges

Tuesday
5 October 2021

Online Training Seminar

The talk will be delivered through teleconferencing. Please use the following link to attend:

https://webmeetings-node1.cut.ac.cy/b/and-uts-lja-wze

The Department of Electrical Engineering, Computer Engineering and Informatics of the Cyprus University of Technology, and the consortium of the EU funded project DESTINI (HORIZON-2020) cordially invite you to attend the first seminar of the training activities of the project on Data Integration Challenges.

Cyprus
University of
Technology

Information: 25 00 25 33
http://destini2020.eu/

SEIS
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Information Systems Research Lab

Program

**Tuesday
October 5, 2021**

10:30 – 12:30 – Data Integration Challenges
Prof. Donatella Firmani

Short Bio

Donatella Firmani is assistant professor at Department of Statistic Sciences of the Sapienza University of Rome, Italy. Her research is dedicated to the study, development, and application of algorithmic methods for different aspects of data management, including data integration, data quality and knowledge discovery. Such topics are challenged in the application domains of eGovernment, eCommerce, smart manufacturing and digital humanities.

Consortium

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SAPIENZA Università di Roma

Tilburg University

European Commission

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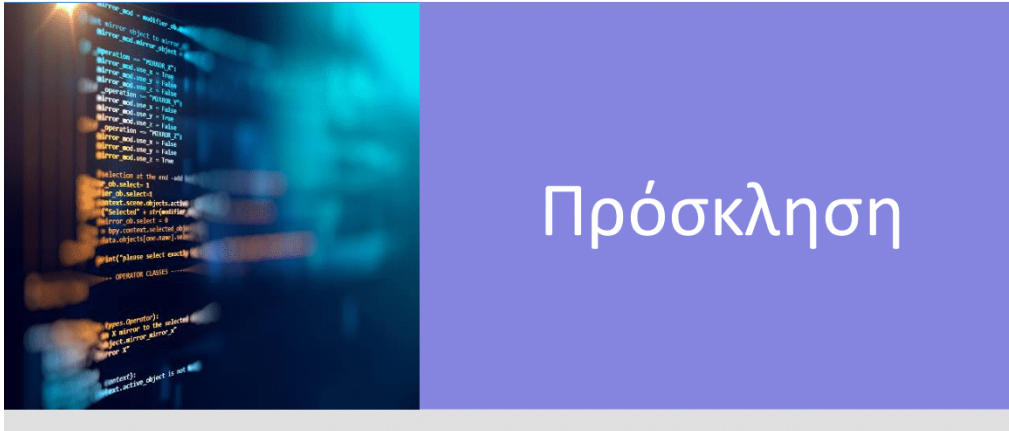www.destini2020.eu

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3.5 Fifth Training from Sapienza Università di Roma

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Smart **D**ata Proc**ES**sing and Sys**T**ems
of Deep **IN**s**I**ght

HORIZON 2020

Πρόσκληση

Εφαρμογές Blockchain

Τρίτη
12 Οκτωβρίου 2021

Διαδικτυακό Εκπαιδευτικό
Σεμινάριο

Η ομιλία θα πραγματοποιηθεί
μέσω τηλεδιάσκεψης. Παρακαλώ
χρησιμοποιήστε τον παρακάτω
σύνδεσμο για να παρευρεθείτε:

https://webmeetings-
node1.cut.ac.cy/b/and-fta-c6c-r3c

Το Τμήμα Ηλεκτρολόγων Μηχανικών, Μηχανικών Υπολογιστών και Πληροφορικής του Τεχνολογικού Πανεπιστημίου Κύπρου και η κοινοπραξία του χρηματοδοτούμενου από την ΕΕ έργου DESTINI (HORIZON-2020) σας προσκαλούν να παρακολουθήσετε το πρώτο σεμινάριο της σειράς εκπαιδευτικών δραστηριοτήτων του έργου σχετικά με τις εφαρμογές Blockchain.
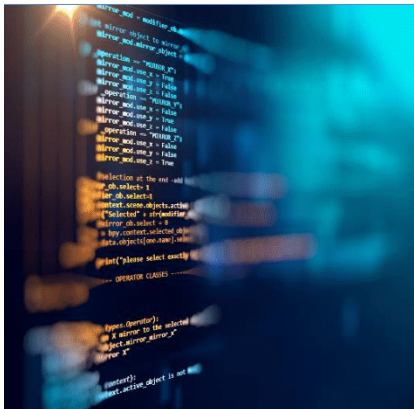
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SEIIS
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Information Systems Research Lab

DESTINI
Smart **D**ata ProcES**s**ing and Sys**T**ems
of Deep **IN**sI**g**ht

HORIZON 2020

Invitation

Blockchain Applications

Tuesday
12 October 2021

Online Training Seminar

The talk will be delivered through teleconferencing. Please use the following link to attend:

https://webmeetings-node1.cut.ac.cy/b/and-fta-c6c-r3c

The Department of Electrical Engineering, Computer Engineering and Informatics of the Cyprus University of Technology, and the consortium of the EU funded project DESTINI (HORIZON-2020) cordially invite you to attend the first seminar of the training activities of the project on Blockchain Applications.

Cyprus
University of
Technology

Information: 25 00 25 33
http://destini2020.eu/

SEIIS
Software Engineering and Intelligent
Information Systems Research Lab

Program

10:30 – 12:30 – Blockchain Applications
Prof. Claudio di Ciccio

Short Bio

Claudio Di Ciccio is an Assistant Professor at the Department of Computer Science of the Sapienza University of Rome, Italy. Previously, he was an Assistant Professor at the Institute for Information Business of the Vienna University of Economics and Business (WU Vienna, Austria). He received a PhD in Computer Science and Engineering in 2013 at Sapienza. His research interests include process mining, declarative modelling, and blockchains. He has authored more than 80 research papers and articles, published among others in Information Systems, Decision Support Systems and ACM Trans. on Software Engineering and Methodology. He received the best paper award at BPM 2015, the best presentation award at ZEUS 2016, and the best user paper award at ECIR 2019. In 2018, he has been nominated Researcher of the Month of the WU Vienna. He is a member of the Steering Committee of the IEEE Task Force on Process Mining. He regularly serves as a reviewer for top journals including Information Systems, ACM TOSEM and ACM TMIS, and is a PC member of renowned international conferences such as BPM, IJCAI and CAiSE. Former PC Chair of the 1st Int. Blockchain Forum at BPM in 2019, he serves as PC Chair of ICPM in 2021 and is appointed as PC Chair of BPM in 2022.

Consortium

Cyprus University of Technology

SEiIS
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SAPIENZA
UNIVERSITÀ DI ROMA

TILBURG
UNIVERSITY

European
Commission

The EU Framework Programme
for Research and Innovation
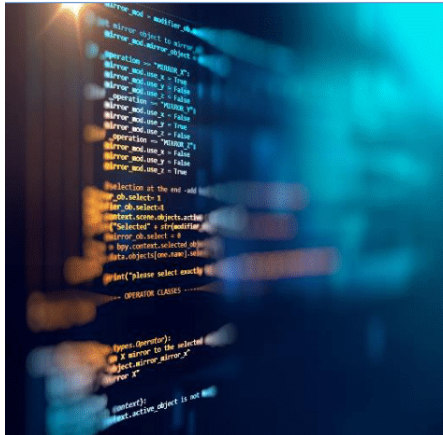HORIZON 2020

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3.6 Sixth Training from Sapienza Università di Roma

DESTINI
Smart Data ProcESsing and SysTems
of Deep INsIght

HORIZON 2020

Πρόσκληση

Αυτοματοποίηση Διαδικασίας για Ρομπότ

**Τετάρτη
13 Οκτωβρίου 2021**

Διαδικτυακό Εκπαιδευτικό Σεμινάριο

Η ομιλία θα πραγματοποιηθεί μέσω τηλεδιάσκεψης. Παρακαλώ χρησιμοποιήστε τον παρακάτω σύνδεσμο για να παρευρεθείτε:

https://webmeetings-node1.cut.ac.cy/b/and-aij-kho-06t

Το Τμήμα Ηλεκτρολόγων Μηχανικών, Μηχανικών Υπολογιστών και Πληροφορικής του Τεχνολογικού Πανεπιστημίου Κύπρου και η κοινοπραξία του χρηματοδοτούμενου από την ΕΕ έργου DESTINI (HORIZON-2020) σας προσκαλούν να παρακολουθήσετε το πρώτο σεμινάριο της σειράς εκπαιδευτικών δραστηριοτήτων του έργου σχετικά με την αυτοματοποίηση διαδικασίας για ρομπότ.

Cyprus University of Technology

Πληροφορίες: 25 00 25 33
http://destini2020.eu/

SEIIS
Software Engineering and Intelligent Information Systems Research Lab

DESTINI
Smart **D**ata Proc**ES**sing and Sys**T**ems
of Deep **IN**s**I**ght

HORIZON 2020

Invitation
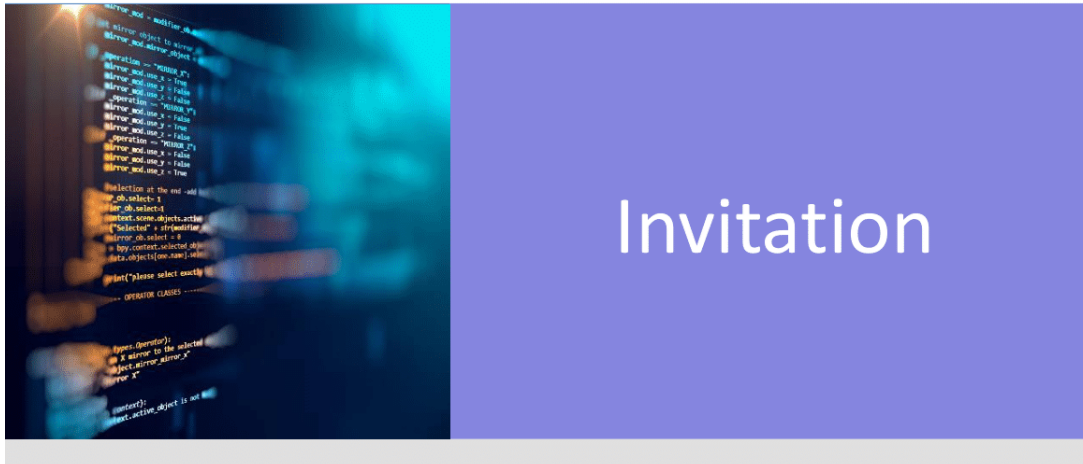
Robot Process Automation

Wednesday
13 October 2021

Online Training Seminar

The talk will be delivered through teleconferencing. Please use the following link to attend:

https://webmeetings-node1.cut.ac.cy/b/and-aij-kho-06t

The Department of Electrical Engineering, Computer Engineering and Informatics of the Cyprus University of Technology, and the consortium of the EU funded project DESTINI (HORIZON-2020) cordially invite you to attend the first seminar of the training activities of the project on Robot Process Automation.

Cyprus
University of
Technology

Information: 25 00 25 33
http://destini2020.eu/

SEIIS
Software Engineering and Intelligent
Information Systems Research Lab

Program

18:00 – 21:00 – Robot Process Automation
Prof. Andrea Marrella

Short Bio

Andrea Marrella is an assistant professor at the Department of Computer, Control and Management Engineering of the Sapienza University of Rome, Italy. He received a PhD in Computer Science and Engineering in 2013. His main research interests focus on how to integrate artificial intelligence with business process management solutions to untangle complex challenges from the fields of process mining and robotic process automation (RPA). In 2021, he started a research program targeted to the realization of automated solutions to tackle the Big Data Pipeline discovery issue in the context of the recently funded H2020 project DataCloud. Information director of ACM Journal of Data and Information Quality, Andrea has co-authored many publications in major outlets in the computer science and information systems areas, including the paper: "Multi-party Business Process Resilience By-Design: A Data-centric Perspective", which received the Best Paper Award at CAiSE 2017. In 2022, he will act as PC Chair of the RPA Forum track within the prestigious 20th International Conference on Business Process Management (BPM 2022).

Consortium

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4.   Posters/Banners

4.1   First School Poster

4.2   First School Program

School Program

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)

School Program

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**

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**

School Program

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**

MOBILITY PROGRAMME

DESTINI H2020 TWINNING PROJECT

INTRODUCTION

DESTINI proposes a series of coordination and support actions for promoting research in the field of Smart Data Processing and Systems of Deep Insight. It brings together two internationally recognized scientific groups from the Netherlands (Stichting Katholieke Universiteit Brabant Universiteit Van Tilburg, European Research Institute in Service Science / Jheronymus Academy of Data Science (ERISS/JADS)) and Italy (Sapienza Università di Roma, Dipartimento di Ingegneria Informatica Automatica e Gestionale Antonio Ruberti (UNIROMA)) that collaborate with the Cyprus University of Technology (CUT) so as to strengthen the research and scientific profiles of the partners, and especially CUT's, in the relevant area field.

RESEARCH AREAS

DESTINI targets a family of intrinsically inter-related open research problems for which traditional research activities on data collection, analysis, management and integration are found lagging. The body of research work in DESTINI is organized in a set of three inherently inter-related research pillars called Joint Research Areas (or JRAs):

- JRA1 - Smart Data Processing Systems: This JRA includes data ingestion, data aggregation of an enormous variety of structured, unstructured and semi-structured datasets, knowledge-based meta-data representation techniques for the conversion of raw into smart data, data privacy and protection, automated deployment, run-time software performance monitoring and dynamic configuration.
- JRA2 - Systems of Deep Insight: This JRA focuses on analytic solutions that enable optimization of asset performance in smart data processing systems and is geared towards systems of insight. These are systems that turn data into insights, systematically test insights and find those data that matter to make them contextual and actionable.
- JRA3 -Methodology for Smart Data-centric Services & Applications: This JRA targets smart application development techniques by providing a methodology that interlocks elements of smart data processing and systems of deep insight to alleviate complexity and the effect of changes, thus speeding up the entire software development/deployment process for smart applications in priority sectorsidentified by the Smart Specialisation Strategy of Cyprus.

ABOUT THE MOBILITY PROGRAMME

DESTINI has carefully planned a mobility programme which targets Early Stage Researchers (ESR) who will come to Cyprus, be recruited by the Cyprus University of Technology (CUT) and conduct research for a specific period of time.

The definition of ESRs is the following: "ESRs shall, at the time of recruitment by the host organisation, be in the first four years (full-time equivalent research experience) of their research careers and have not been awarded a doctoral degree." Therefore, ESRs are welcome to apply for DESTINI's mobility programme and join its research team, aiming at investigating hot and challenging research problems in the areas of smart data processing and systems of deep insights.

The research background and interests of the ESRs should revolve around scientific areas such as Software Engineering, Artificial Intelligence and Machine Learning, Big Data, Internet of Things (IoT), Data Visualization and Analytics.

ACTIVITIES OF THE MOBILITY PROGRAMME

The activities of the mobility programme include training and mentoring of ESRs on particular research subjects assigned, brainstorming, investigation of solutions and piloting, and publication of the work produced in scientific journals, conferences and workshops.

It is anticipated that on average 8-10 researchers will make use of the mobility programme, and will be smoothly integrated in DESTINI's research team. These researchers will be supported financially for an average period of 1 to 3 months (with the opportunity of renewal for up to 3 more months) by means of scholarships (plus travelling expenses), while there will also be support for easy relocation.

PARTNERS

Cyprus University of Technology

SAPIENZA UNIVERSITÀ DI ROMA

TILBURG UNIVERSITY

APPLY FOR DESTINI'S MOBILITY PROGRAMME HERE :

www.destini2020.eu/portal

DURATION

September 2021 – August 2022

SALARY

The monthly salary is 2000€ plus 700€ travelling costs

ACADEMIC INSTITUTION / DEPARTMENT / LOCATION

Cyprus University of Technology, Dept. of Computer Engineering and Informatics, Limassol,Cyprus

FOR MORE INFORMATION:

www.destini2020.eu   www.seiis.cut.ac.cy   www.cut.ac.cy

GET IN TOUCH

DESTINI
SMART DATA PROCESSING
AND SYSTEMS OF DEEP INSIGHT

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4.4   Destini Poster

5. Conclusion

This document provided an outline of the dissemination material produced for the project during its second year of execution. In this context, a list of leaflets, invitations, posters and banners were produced and disseminated via electronic covering the period between 1/10/20 until 30/9/2021. The produced material was uploaded on DESTINI's website, as well as social media accounts. In addition, the produced material was distributed to local stakeholders, the local scientific community and the general public to inform them about the mission, targets and results of DESTINI thus far, as well as invite them to join its training activities where applicable.