LInC

Laboratory for Internet Computing
University of Cyprus (UCY)

Maria Poveda

MISSION

Laboratory for Internet Computing

EDUCATION & TRAINING

Support Undergraduate And Postgraduate Students Theses
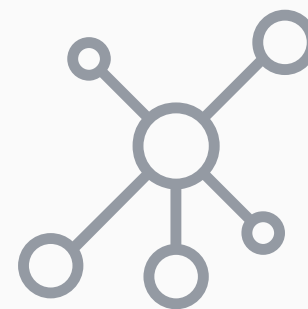
Research Seminars & Post Graduate Short Courses

RESEARCH

Develop And Conduct High-quality Research And Achieve An International Research Exposure In Computing

INNOVATION

New Ideas, New Technologies And Improvements On Existing Ones Using The Power Of Cloud And Big Data

SERVICES TO SOCIETY

Enhance the Uptake of Innovative Information Technologies By Cypriot Organizations And The Society

RESEARCH AREAS

Laboratory for Internet Computing

CLOUD COMPUTING

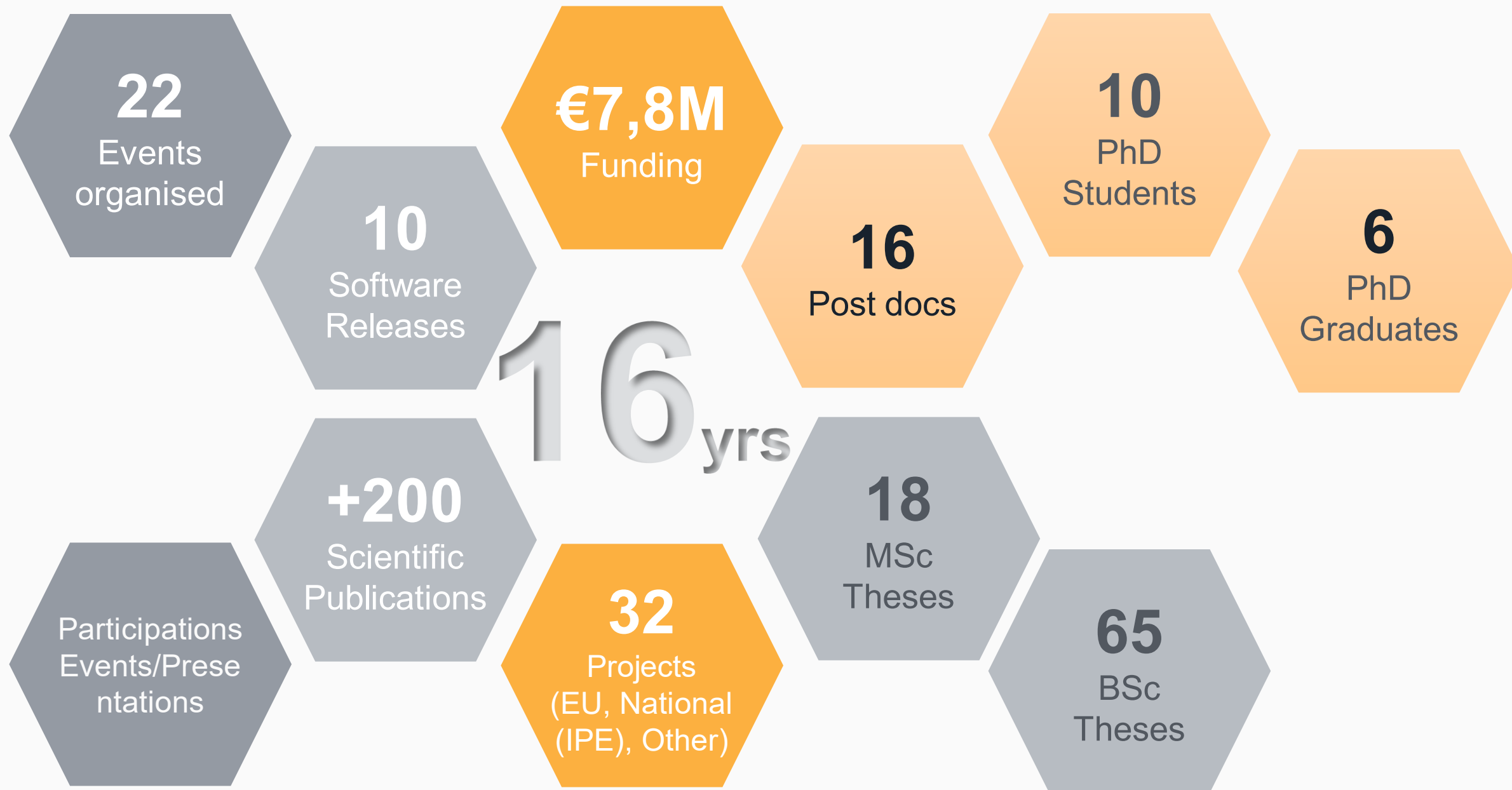Elasticity

Monitoring

EDGE COMPUTING

IoT

Middleware

BIG DATA ANALYTICS

Sentiment Analysis

Predictive Analytics

OUTLINE

2002 – Present

22 Events organised

10 Software Releases

€7,8M Funding

16 Post docs

10 PhD Students

6 PhD Graduates

16yrs

Participations Events/Presentations

+200 Scientific Publications

32 Projects (EU, National (IPE), Other)

18 MSc Theses

65 BSc Theses

HIGHLIGHTS

2002 – Present

FUNDING

- ✓ + 7,8 MEuros

- ✓ 32 projects:
  - EU, National, Inter-Regional Agencies
  - Amazon, Google, Eclipse

HIGHLIGHTS

2002 – Present

RESEARCH OUTPUT

- ✓ + 200 publications: top journals and conferences

- ✓ 6 PhD Theses

- ✓ 18 MSc Theses

- ✓ 60 BSc Theses

- ✓ 10 software product released as open source

HIGHLIGHTS

2002 – Present

TRAINING

- ✓ +80 researchers (recruited)

    16 Post-docs

    10 PhD students

    35 post-graduate students & engineers

    19 undergraduates

- ✓ Conferences (6), Workshops (16)

HIGHLIGHTS

2002 – Present

INFRASTRUCTURE

✓ Developed and operates state-of-the-art Grid & Cloud HPC infrastructure

✓ 92 CPUs/340 cores

747 GB RAM

87 TB storage

AWARDS

2002 – Present

Best Demonstration Award CoreGRID

D. Zeinalipour-Yazti, H. Gjermundrod,

M. D. Dikaiakos, G. Panayi and Th. Kyprianou

"ICGrid: Intensive Care Grid"

Industrial Conference, Sophia-Antipolis

France 2006

Best paper ICSOC 2014

G. Copil, D. Trihinas, H.L Truong, D. Moldovan,

G. Pallis, S. Dustdar and M. D. Dikaiakos

"ADVISE -- a Framework for Evaluating Cloud Service Elasticity Behavior"

In Service-Oriented Computing.

Lecture Notes in Computer Science,

Vol. 8831, Springer, 2014, pp. 275-290

Paris, France 2014

Best Student Paper Award IEEE Big Data 2016

Hariton Efstathiades, Demetris Antoniades,

George Pallis, Marios D. Dikaiakos,

Zoltán Szlávik and Robert-Jan Sips

"Online Social Network Evolution: Revisiting the Twitter Graph"

Washington, DC, USA 2016

AWARDS

2002 – Present

Student Innovators Competition 2018

Elena Kouttoukou obtained the 3rd place and CYBAN Award with her B.Sc. Thesis, an application for personal management of prescription drugs for international travellers, called "MediMate"

Nicosia, Cyprus 2018

Cyprus Open Data Hackathon 2018

Demetris Paschalides, Moysis Symeonides, Thanasis Tryfonos, and Zacharias Georgiou obtained the 1st place and Smart City Challenge at the Cyprus Open Data Hackathon:

"ProlePSYS - optimizing reporting and response times of emergency incidents, reduce the number of fake calls to the authorities and raise awareness among the general public"

Limassol, Cyprus 2018

RESEARCH INFRASTRUCTURE

~306,000 CPUs (cores)
~155Pb disk
~150Pb tape

~38 million jobs/month
350 sites
59 countries
~70 active VOs

Grid Real Time Monitor:
http://gridportal.hep.ph.ic.ac.uk/rtm

Imperial College London

10:14:26 UTC (3 minutes ago)
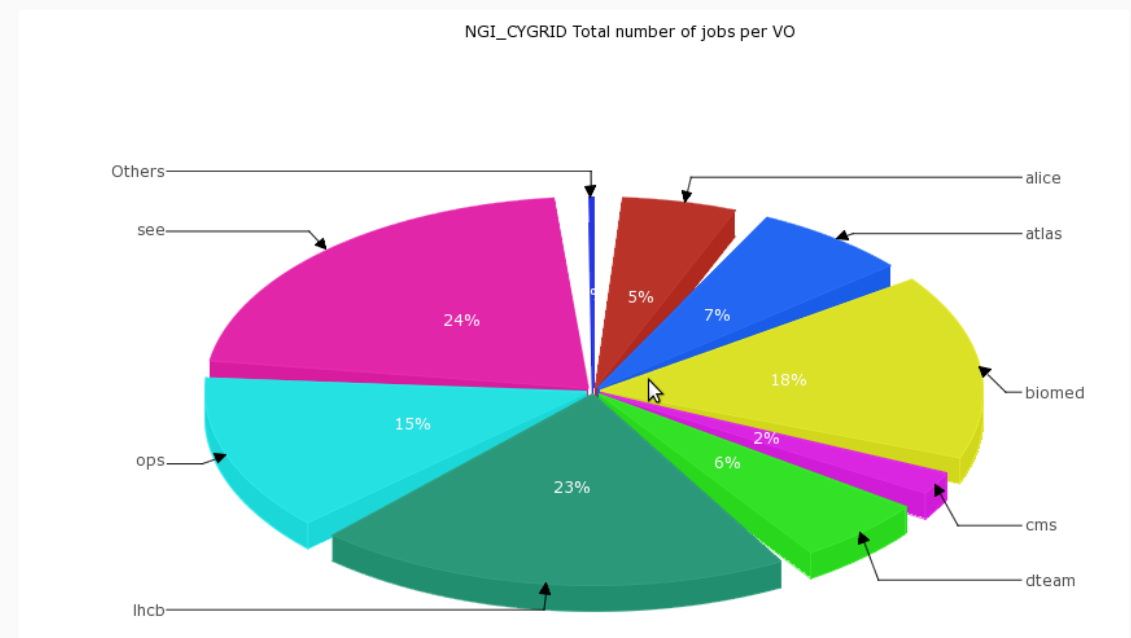
GridPP
UK Computing for Particle Physics

CyGrid (2004-2017)

Cyprus National Grid Infrastructure Node of the European Grid Infrastructure (EGI 2014)

Serving Cyprus Community
- Environmental Marine Science
- Statistical Analysis
- Neural Network Simulations
- Computer Architecture
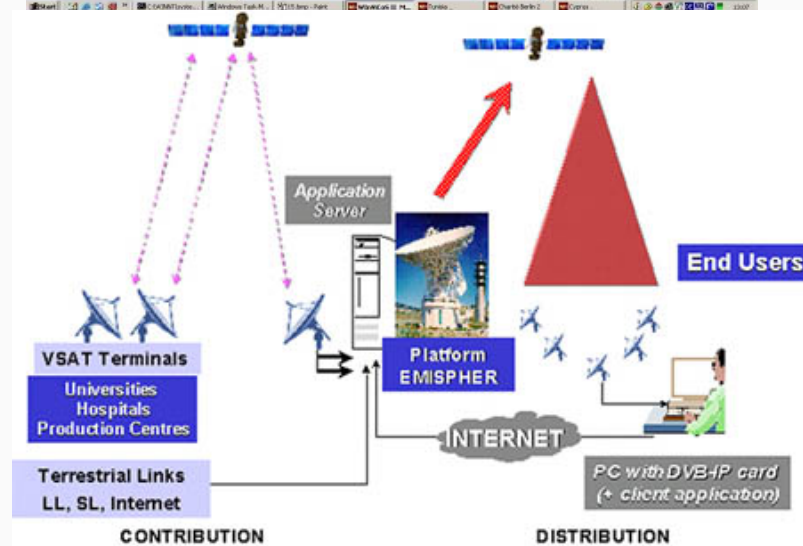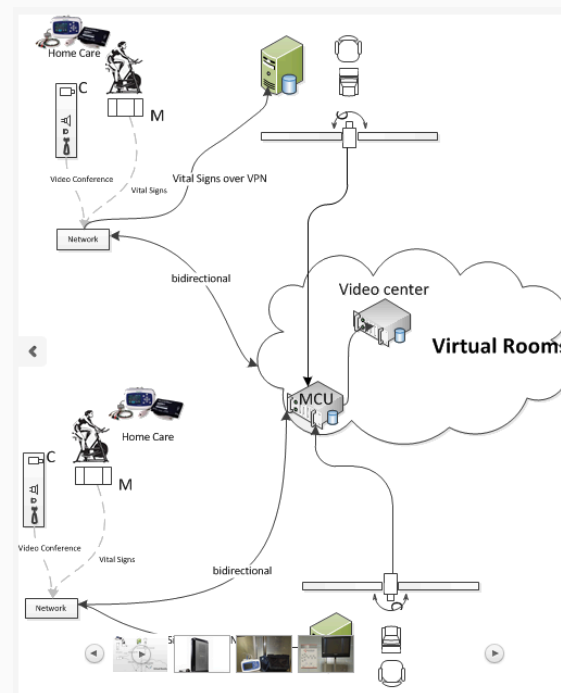- Intelligent Transportation System

NGI_CYGRID Total number of jobs per VO

University of Cyprus

http://linc.ucy.ac.cy/
Laboratory for Internet Computing (LINC)

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RESEARCH INFRASTRUCTURE

Medical Platform

Training and Research for Medical Practice

EMISPHER

TELEREHABILITATION

Home Care Station

Virtual Coordination Room

HEALTHWARE

University of Cyprus

Nicosia General Hospital

CURRENT PROJECTS

Check-it!

Visualization fake news on social media

Google Digital News Initiative to start spring 2018

Funds: € 24,000.00

ICARUS

Aviation-driven Data Value Chain for Diversified Global and Local Operations

GA 780792, (Horizon 2020, 01/01/18 - 31/12/20). Technical Coordinator

Funds: € 278.750,00

ENEDI

Energy Saving in Public Academic Buildings with Data Centers

(Interrreg Greece-Cyprus, 01/12/17-31/12/19)

Funds: € 379.000,00

UNICORN

A Novel Framework For Multi-Cloud Services Development, Orchestration, Deployment And Continuous Management Fostering Cloud Technologies Uptake From Digital SMEs And Startups

GA 731846 (Horizon 2020, 01/01/17-31/12/19) Scientific & Technical Management

Funds: € 674.375,00

OTHER ACTIVITIES

Editorial and Conferences

Editorial

❑ George Pallis (Associate Editor in Chief in IEEE Internet Computing magazine)

❑ Marios Dikaiakos & George Pallis (Associate Editors in Computing Journal (Springer))

Conferences

❑ CCGRID, May 2019

❑ APF2012 Annual Privacy Forum, 2012

❑ TPDL2012, 2012

CCGrid2019 CYPRUS

19th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing (IEEE/ACM CCGrid 2019)

14 -17 MAY 2019
Golden Bay Beach Hotel, Larnaca, Cyprus

Advances in architectures, networks, systems and middleware technologies are leading to new concepts and platforms for computing, ranging from Clusters and Grids to Clouds and Datacenters; they result in an outstanding impact to numerous aspects of the modern world. The forum brings together international researchers, developers and practitioners to present leading research activities and the results on a broad range of topics, related to these concepts and their applications. The conference features keynotes, technical presentations, workshops, and posters, as well as the Doctoral Symposium and the SCALE challenge featuring live demonstrations.

Cyprus is a European Union member and a major financial, business, tourist, and educational hub in the Mediterranean. For millennial, Cyprus has been at the cross-roads of major civilizations.

At present times, it combines a modern European culture with ancient enchantment and world-class tourist and archaeological attractions. Cyprus epitomizes the ideal weather of the Mediterranean, with sunny days and fine temperatures almost every day throughout the year.

Larnaca, the city where CCGrid 2019 will take place, is the location of the island's international airport with daily direct connections to major hubs (Athens, London, Vienna, Paris, Rome,Berlin, Tel Aviv, Dubai etc.). Larnaca features blue-flag beaches and seaside promenades, a modern marina, and various archaeological attractions.

Golden Bay Beach Hotel is a luxurious 5 star hotel situated in the favored south eastern region of Cyprus at the heart of the Bay of Larnaca. Only 15 minutes from Larnaca Airport and 1 hour and 30 minutes from Paphos Airport.

www.ccgrid2019.org

IMPORTANT DATES
Abstracts Due:
Nov 9, 2018 (AOE)
Papers Due:
Nov 16, 2018 (AOE)
Notification of Acceptance:
Jan 18, 2019
Camera Ready Paper:
Feb 8, 2019
Deadline for Workshop Proposals:
Nov 29, 2018

ORGANIZATION

GENERAL CHAIRS
Marios Dikaiakos
University of Cyprus, Cyprus
Schahram Dustdar
TU Wien, Austria

PROGRAM CHAIRS
Sarunas Girdzijauskas
KTH Royal Institute
of Technology, Sweden
George Pallis
University of Cyprus, Cyprus
Yongwei Wu
Tsinghua University, China

ORGANIZERS & SPONSORS

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my Austrian Official Airline austrian.com
easy CONFERENCES

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University of Cyprus

LInC

OTHER ACTIVITIES

3rd Innovation and Entrepreneurship Forum

23 November 2017

LINC Induction for Interns

12 June 2017

Training: Cloud Infrastructure

31 May 2017

2nd Cloud Computing in Cyprus Workshop

30 May 2015

CS Workshop for High School Students

07 February 15

Online Social Networks: "Emerging Trends" Workshop

07-08 October 2014

PARTNERSHIPS - COLLABORATIONS

PEOPLE

Faculty

MARIOS D. DIKAIAKOS

Professor and Director for Entrepreneurship
Ph.D., Princeton University
USA, 1994
http://www.cs.ucy.ac.cy/~mdd/

GEORGE PALLIS

Assistant Professor
Ph.D., Aristotle University of Thessaloniki
Greece, 2006
http://www.cs.ucy.ac.cy/~gpallis/

PhDs

Present Positions

George Tsoulouppas
Head of HPC Facility Cyprus Institute
CY

Andreas Papadopoulos
Software Eng./Team Leader
CS Circles Solutions LTD
CY

Wei Xing
AIM Lead The Francis Crick Institute
UK
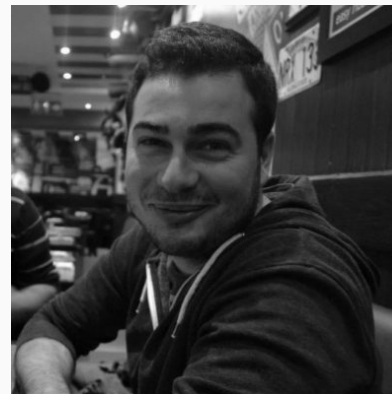
Demetris Trihinas
Researcher/ST, LINC
CY

Nicholas Loulloudes
Head R&D TRG Research and Development
CY

Hariton Efstathiades
Operations and Innovation Manager
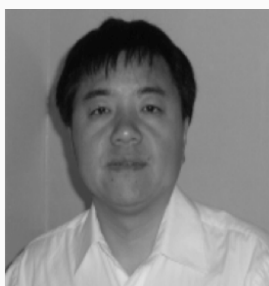Ygia Polyclinic Private Hospital
CY

ALUMNI
Present Positions

George Pallis
Assistant Professor
LINC - Faculty
CY

George Tsoulouppas
Head of HPC Facility
Cyprus Institute
CY

Jesús Luna, PhD
Security Architect
Robert Bosch Inc.
DE

Harald Gjermunrøed, PhD
Associate Professor
University of Nicosia
CY

Wei Xing
AIM Lead The Francis
Crick Institute
UK

Marilena Georgiadou, MSc
SW Developer/Team Leader
Hellenic Bank Public Co
CY
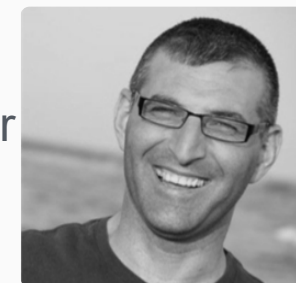
Mustafa Jarrar, PhD
Visiting Associate Professor
University At Buffalo, NY
USA
CY

Christiana Crhistofi, MSc
Mobile VAS & Supporting
Syst. CYTA
CY

Petia Kouklove, MSc
Senior Manager, KPMG
CY
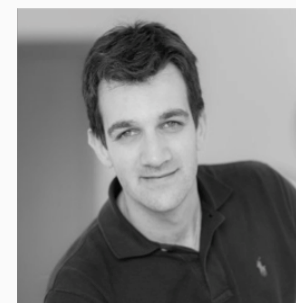
Nicholas Loulloudes, PhD
Head R&D, TRG Research
& Development
CY

Georges da Costa, PhD
Associate Professor
Université Toulouse III
FR

Asterios Katsifodimou, PhD
Assistant Professor, DELFT
NE
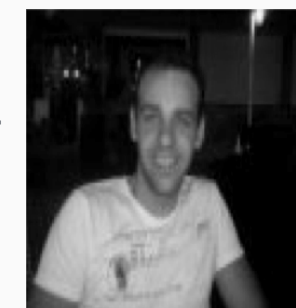
Andreas Papadopoulos, PhD
SW Engineer/Team Leader
CS Circles Solutions LTD
CY

ACTIVITIES UCY

ARRANGE-ICT

Experience on Modernized Curricula & Short programmes

- Innovation Management and Business Development
- Design Thinking
- Business Model Canvas

ACTIVITIES UCY

ARRANGE-ICT

Experience on Modernized Curricula & Short programmes

➢ MSc in Data Science (Computer Science Dpt, Mahtematics & Statistics Dpt, Bussiness Dpt) -- this is a new programme

➢ BSc in Computer Science

the programme has been modernized by taken into account the latest ACM Curricula Recommendations

➢ BSc in Computational Science (Computer Science Dpt, Mathematics & Statistics Dpt, Biology Dpt, Physics Dpt, Chemistry Dpt) – this is a new programme

➢ Training events (workshops, short courses, summer schools) in **iSocial** Marie Curie ITN

- Emerging Technologies for Decentralized Online Social Networks

➢ Training events (workshops, short courses, summer schools) in **RAIS** Marie Curie ETN

- Real-time Analytics for the Internet of Sports

➢ Training events for Cloud Computing (UNICORN, PAASPORT, CELAR)

- DevOps Engineering, designing and deploying Cloud applications

➢ GDPR Training events with focus on Data Privacy and Emerging Technologies

➢ Series of Lectures "Innovation and Entrepreneurship"

UCY Involvement

ARRANGE-ICT

ACTIVITIES IN THE PROJECT INCLUDE:
- O3 Skills Foresight Study (UCY involvement) (M10-M24)
- O4 Guide for Instructors   (UCY involvement) (M11-M18)
- **O5 Modernised Curricula & Short Programmes (UCY Leader) (M17-M24)**

➢**1st Multiplier event: M10 (June 2019) responsible UCY**
   E1: Transnational Workshop on the Smart Job Hub – Specifications and Potentials (CYPRUS)
   - Expected: #participants = 30 local + #participants foreign = 10   (40 participants)
➢**1st Teaching/Training Event (C1) (UCY) M10 (June 2019) responsible UCY**
   C1: SP-HE-SHORT-Short term joint staff training events
   - Participants #: 14; Duration: 3 days

O5 Modernised Curricula & Short Programmes

THANK YOU