

Curriculum Vitae of

D. N. KALLERGIS

Electronic Computer Systems Engineer, MSc, doctoral researcher

PERSONAL DATA

Name/Surname: DIMITRIOS N. KALLERGIS
Home address: 122, Kallergi str., 18544, Piraeus
Birth date and place: June 23, 1977, Piraeus, Greece
Marital status: Single
E-mail: D.Kallergis@unipi.gr
Office tel.: (+30)210-4142458

COMPULSORY MILITARY SERVICE

2003 - 2004: Reserve Sergeant (Hellenic Force in Cyprus - ELDYK)

[*awarded the "Excellent Service Reward"* by the First Deputy Chief of the Hellenic Army General Staff, Lieut.General Evangelos Georgadas]

EDUCATION

- 2011 – today (**expected in Q3 2017**): *PhD candidate*, Dept. of Informatics, University of Piraeus
Area: "Ad-hoc Cloud Computing"
- 2006 - 2008: *M.Sc. in Data Communication Systems*, School of Engineering and Design, Brunel University, London [*diploma officially recognized by Hellenic NARIC*]
- 2000 - 2002: *Postgraduate Diploma in Computer Networks & Distributed Computing*, Computer Science School, University of Westminster, London [*diploma officially recognized by Hellenic NARIC*]
- 1996 - 2000: *Electronic Computer Systems Engineer*, Dept. of Electronic Computer Eng., School of Technological Applications, Technological Educational Institute (TEI) of Piraeus
- 1992 – 1995: *Lyceum Degree (Computer Science)*, 3rd Technical Lyceum of Piraeus

RESEARCH INTERESTS

- Cloud computing
- IT Law, Regulation and Ethics
- Ad hoc mobile networks
- Social networks

GRANTS

- **2015:** Funded by the Greek Research & Technology Network (GRNET). Agreement between the GRNET and the Network and Telecommunication Systems, Services and Security Laboratory (Univ. of Piraeus) for the exclusive measurements' conduct of EM radiation at public hospital venues. Authorised testing equipment was provided to the Laboratory for this purpose (**62,000€**).
- **2015:** Funded by Amazon Web Services, Inc.: "AWS in Education Grants" for cloud computing services that aim to complete my current research (**\$6,000**).
- **2014:** Funded by Amazon Web Services, Inc.: "AWS in Education Grants" for cloud computing services that aim to strengthen my research activity (**\$7,000**).

PROFESSIONAL EXPERIENCE

- 1/2016 – 12/2016 **Electronic Computer Systems Engineer** for the University of Piraeus Research Center
- Work Objectives: Software platform development and installation of measurements' stations
- Project: "Development, Installation and Management of Measurement Network for Electromagnetic radiation impact using mobile network infrastructure"; Private Funds by the Telecommunications Industry
- 6/2016 – 11/2016 **Technical and Scientific Coordinator / Quality Control Consultant** for the University of Piraeus Research Center
- Work Objectives: Project processes and coordination, deliverables authoring
- Project: "European Union Agency for Network and Information Security (ENISA) D-COD-16-T22: Ad-hoc and sensor networking for M2M communications Threat Landscape and good practice guide"; funded by ENISA
- 5/2015 – 12/2015 **Quality Control Consultant** for the University of Piraeus Research Center.
- Work Objectives: Periodical on-site work in Tunisia and overall participation in project activities and deliverables
- Project: "Euro-meDiterranean cAreer & Employment aDvisor portAl for the mobiLity of yoUng residents" (DAEDALUS), funded by the E.U. under the European Neighbourhood and Partnership Instrument (ENPI) Cross-Border Cooperation (CBC) Mediterranean Sea Basin Programme
- 2/2015 – 8/2015 **Special Adviser** to the Greek Minister of Education, Culture and Religious Affairs (Govern. Gazette YODD 178/27-3-2015)
- Work Objectives: Higher Education affairs (Legislative and Institutional advice) and IT projects on infrastructures and services.
- 6/2012 – 1/2015 **MP Adviser**, Hellenic Parliament

- Work Objectives: Parliamentary control procedures, Standing parliamentary committees, Legislative process, Communication issues, ad-hoc human resources management
- 6/2012 – 6/2014 **Electronic Computer Systems Engineer** at the National Technical University of Athens, T.E.I. of Piraeus and T.E.I. of Ionian Islands
- Work Objectives: Deliverables and reports authoring
- Project: Operational Programme for Education and Initial Vocational Training, NSRF 2007-2013: “Elimination of digital gap in urban and island territories”
- 10/2011 – 12/2014 **Electronic Computer Systems Engineer** at the University of Piraeus Research Centre
- Work Objectives: Project supervision, participation in measurements procedure, deliverables and reports authoring
- Project: EM radiation & environmental measurements for mobile network infrastructure
- 12/2009 – 12/2012 **Software Engineer** at the Newtown Software Engineering
- Work Objectives: Study, design and development of object-oriented applications in distributed systems
- Project: Partial implementation on software extensions for banking systems
- 1/2009 – 12/2012 **Software and Systems Engineer** at the Greek General Confederation of Labour (G.S.E.E.)
- Work Objectives: Study, development and support for distributed systems
- Project: Distributed systems integration, maintenance and upgrade.
- 1/2010 – 12/2011 **External IT Consultant** at Ericsson Hellas
- Work Objectives: Technical Lead and Consultancy for constructing and authoring Technical Bulletins for the Regional Operational Programme “Information Society” (4th European Community Support Framework)
- 3/2008 – 9/2008 **Member of the “iδ2 research team”** at the e-Business forum (Information Society operational programme funding) of GRNET S.A.
- www: <http://www.ebusinessforum.gr/teams/teamsall/view/index.php?ctn=114&language=el>
- Work Objectives: “Research study for Unified Communications”
- 10/2006 – 2/2007 **Electronic Computer Systems Engineer** at the AKMI IVT Center (“IEK”).
- Work Objectives: Data network upgrade and administration
- Project technologies: Routing policies applied on Cisco network systems and MS Active Directory Server design and implementation

- 1/2005 – 12/2006 **Fellow Engineer** at the network operation center (noc) at T.E.I. of Piraeus.
Work Objectives: Participation in research and development programmes
Project: Operational Programme for Education and Initial Vocational Training (e-learning system implementation on a HP-UX parallel system)
- 5/2004 – 9/2004 **Data networks Engineer** at PC Systems S.A.
Work Objectives: *Data Network Specialist (under Technology Group – ATOS ORIGIN S.A.)* at Athens 2004 Olympic Games
Project: Network administration and integration using Cisco network systems for Venues during the Olympic Games. VLANs and interior gateway routing protocols apply and debug on Cisco switches and routers. Security policies for local use.
- 2000 **Network Operation Centre (NOC) technician** at T.E.I. of Piraeus.
Work Objectives: Data networks, Operating systems, Software application development for computer systems administration.
Project technologies: Apache/IIS server, MS Access/Oracle database, Sun/SGI/HP operating systems.
R&D project limited participation: CLEANMAG project (LIFE 99-ENV/GR/567 EUROPEAN COMMISSION DG XI)

TEACHING EXPERIENCE

- 10/2015 – today **Invited Lecturer** (semester paid contracts), West Macedonia University of Applied Sciences and University of Piraeus, “MSc in Modern Telecommunication Systems, Internet Technologies and Systems Security”, on the courses: **a)** Distributed Systems and Cloud Computing, **b)** Systems and Network Security **c)** Internet Technologies and Programming and **d)** Network & Telecommunications Regulatory and Policy Topics, **e)** Mobile Computing and Applications, **f)** Advanced Topics in Networks
- 9/2012 – today **Teaching & Research Associate** (paid contracts per module), University of Piraeus, Dept. of Informatics, on the courses: **a)** Cloud Computing (postgraduate), **b)** Computer Networks (postgraduate)
Hosting Laboratory:
 a) Network and Telecommunication Systems, Services and Security laboratory (NetLab)
<http://netlab.cs.unipi.gr/>
- 10/2004 – 2/2017 **Teaching & Research Associate** (annual paid contracts), Piraeus University of Applied Sciences (prev. T.E.I. of Piraeus), Dept. of Electronic Computer Systems Eng., on the courses: **a)** Computer Networks and Communications

(undergraduate), **b)** Object-Oriented programming (undergraduate/postgraduate) **c)** Database Systems (undergraduate), **d)** Broadband Networks (postgraduate).

Hosting Laboratories:

a) Peripherals and Networks Laboratory (PeLAB)

http://platon.teipir.gr/new/ecs/pelab_1/pelab.htm

b) Software and Services Laboratory (S2E Lab)

<http://s2e.teipir.gr/>

3/2016 – 6/2016

Accredited Lecturer, University of Derby (Athens/Greece MC Campus) on the courses: **a)** Software Engineering.

10/2013 – 7/2014

Accredited Lecturer, University of East London (Athens/Greece AMC Campus) on the courses: **a)** Advanced Topics in Networks, **b)** Academic Writing.

<http://www.metropolitan.edu.gr/en/>

9/2011 – 7/2011

Teaching Associate, University of Piraeus (unpaid), Dept. of Informatics, on the courses: **a)** Computer Networks (undergraduate), **b)** Introduction to Internet Programming (undergraduate) and **c)** Operating Systems (postgraduate)

Hosting Laboratory:

a) Network and Telecommunication Systems, Services and Security laboratory (NetLab)

<http://netlab.cs.unipi.gr/>

9/2006 – 11/2009

Secondary education teacher (Informatics) at Karachaliou Secondary School, Keratsini-Piraeus.

DISSERTATIONS / STUDENT PLACEMENTS SUPERVISION

- Co-supervision of several postgraduate theses at University of Piraeus (with Prof. Christos Douligeris)
- Autonomous supervision of undergraduate dissertations at TEI of Piraeus
- Co-supervision of undergraduate dissertations at TEI of Piraeus (with Prof. G. N. Prezerakos)
- Supervision and coordination of 11 undergraduate student Placements at TEI of Piraeus

OTHER ACTIVITIES

- Member of several Examiners Committees for undergraduate dissertations, Dept. of Electronic Computer Systems Eng., Piraeus University of Applied Sciences (*prev.* TEI of Piraeus).

PARTICIPATION IN RESEARCH & DEVELOPMENT PROJECTS

- 1/2016 – 12/2016 Project: “Development, Installation and Management of Measurement Network for Electromagnetic radiation impact using mobile network infrastructure”; Private Funds by the Telecommunications Industry.
- 6/2016 – 11/2016 Project: “European Union Agency for Network and Information Security (ENISA) D-COD-16-T22: Ad-hoc and sensor networking for M2M communications Threat Landscape and good practice guide”, funded by ENISA.
- 5/2015 – 12/2015 Project: “Euro-meDiterranean cAreer & Employment aDvisor portAl for the mobiLity of yoUng residents” (DAEDALUS), funded by the E.U. under the European Neighbourhood and Partnership Instrument (ENPI) Cross-Border Cooperation (CBC) Mediterranean Sea Basin Programme.
- 9/2015 – 10/2015 Project: “Public Hospital Units Integration in the national research and academic network (GRNET) to support research and clinical activities in medicine and biology using cloud computing environments”, funded by European Regional Development Fund; ERDF 2007-2013.
- 6/2012 – 6/2014 Project: “Elimination of digital gap in urban and island territories”, funded by the Operational Programme for Education and Initial Vocational Training; NSRF 2007-2013.
- 10/2011 – 12/2014 Project: “EM radiation & environmental measurements for mobile network infrastructure”; Private Funds.
- 3/2008 – 9/2008 Project: “Research study for Unified Communications”, Greek Research and Technology Network (GRNET); National Funds.
- 1/2005 – 12/2006 Project: Archimedes II at the sub-project: “Extension of Ethernet technology for broadband networks use”; NSRF Funds.
- 1/2005 – 7/2005 Project: “Higher Education”, funded “Operational Programme for Education and Initial Vocational Training; NSRF Funds.
- 6/2000 Project: “CLEANMAG” (LIFE 99-ENV/GR/567 EUROPEAN COMMISSION DG XI)

INTERNATIONAL SCIENTIFIC JOURNALS

- [1] G. Katsikogiannis, **D. Kallergis**, Z. Garofalaki, and C. Douligeris. *Policy-aware Service Oriented Architecture for Secure Smart Machine-to-Machine Communication*. Elsevier peer-reviewed Journal. Submitted in April 2017
- [2] **D. Kallergis**, T. Mavroeidakos, C. Chaldeos, D. Vergados and C. Douligeris. *Cloud Performance Evaluation: A cross-border Law and Regulatory Breakdown*. IEEE peer-reviewed Journal. Submitted in January 2017.

INTERNATIONAL SCIENTIFIC CONFERENCE PROCEEDINGS

- [1] C. Papacharalampou, **D. Kallergis**, M. McManus, L.B. Newnes and C. Douligeris (2017). *Bridging Socio-Hydrology with Cyber-Physical Systems: Synergies and Opportunities*. 15th International Conference on Environmental Science and Technology (CEST2017), 31 Aug. – 2 Sep. Rhodes, Greece. *To be presented*.
- [2] Z. Garofalaki, **D. Kallergis**, G. Katsikogiannis and C. Douligeris (2017). *A Policy-aware Model for Intelligent Transportation Systems*. 1st International Balkan Conference on Communications and Networking (BALKANCOM2017), 30 May – 2 June, Tirana, Albania. *To be presented*.
- [3] A. Tamilias, T. Themelis, T. Karvounidis, Z. Garofalaki and **D. Kallergis** (2017). *B@SE: Blocks for @duino in the Students' Educational Process*. 8th IEEE Global Engineering Education Conference (EDUCON2017), 25-28 April, Athens, Greece. *To appear*.
- [4] Z. Garofalaki, **D. Kallergis**, G. Katsikogiannis, I. Ellinas and C. Douligeris (2016). *Transport Services within the IoT Ecosystem using Localisation Parameters*. 16th IEEE Symposium on Signal Processing and Information Technology (ISSPIT2016), 12-14 December, Limassol, Cyprus, pp.87-92. <http://dx.doi.org/10.1109/ISSPIT.2016.7886014>
- [5] T. Mavroeidakos, **D. Kallergis**, D. Vergados and C. Douligeris (2016). *Towards Mobile Cloud Security Performance: A Cross-Border Approach*. IEEE 23rd International Conference on Telecommunications (ICT2016), 16-18 May, Thessaloniki, Greece. IEEE Conference Proceedings, pp.1-6. <http://dx.doi.org/10.1109/ICT.2016.7500392>
- [6] **D. Kallergis**, J. Tsantilis and C. Douligeris (2015). *Performance Evaluation of Cloud Systems: A Behavioural Approach*. 15th IEEE Symposium on Signal Processing and Information Technology (ISSPIT2015), 7-10 December, Abu Dhabi, UAE. IEEE Conference Proceedings, pp.409-414. <http://dx.doi.org/10.1109/ISSPIT.2015.7394370>
- [7] **D.Kallergis**, T. Chavakis, C. Papacharalampou, K. Chimos and C. Douligeris (2014). *Earth and groundwater visualisation using 3D modelling techniques in a cloud computing environment*. 14th IEEE International Symposium on Signal Processing and Information Technology (ISSPIT2014), 15-17 December, Noida, India. IEEE Conference Proceedings, pp.78-84. <http://dx.doi.org/10.1109/ISSPIT.2014.7300567>
- [8] **D.Kallergis**, C. Papacharalampou, K. Chimos, T. Chavakis and C. Douligeris (2014). *A Hybrid Cloud Computing Approach for Managing Spatial Data: A Case Study for Water Resources in Greece*. 5th International Conference on Computing for Geospatial Research and Application (COM.Geo2014), 4-6 August, Washington DC, USA. IEEE Conference Proceedings, pp.33-37. <http://dx.doi.org/10.1109/COM.Geo.2014.18>.
- [9] **D. Kallergis**, T. Karvounidis, K. Chimos, M. Mpasios, S. Vizikidis and C. Douligeris (2014). *Pirus: A File Storage Service in Cloud Computing for Educational Use*. 5th IEEE Global Engineering Education Conference (EDUCON2014), 3-5 April, Istanbul, Turkey. IEEE Conference Proceedings, pp.416-421. <http://dx.doi.org/10.1109/EDUCON.2014.6826128>.
- [10] M. Mpasios, **D. Kallergis**, K. Chimos, T. Karvounidis and C. Douligeris (2013). *Software in E-learning Architecture, processes and management*, 6th International Conference of Education,

Research and Innovation (iCERI2013), 18-20 November, Seville, Spain. iCERI2013 Proceedings, pp.3563-3570. ISBN: 978-84-616-3847-5.

- [11] **Kallergis D.**, Chimos K., Vizikidis S., Karvounidis T. and Douligeris C. (2013). *Pirus: A web-based File Hosting Service with Object Oriented Logic in Cloud Computing*, 3rd International Conference on Internet & Cloud Computing Technology (ICICCT2013), 6-7 November, Singapore. Also in: *International Journal of Information Technology & Computer Science (IJITCS)*, 12 (3), pp.38-43. ISSN: 2091-1610.
- [12] Chimos K., **Kallergis D.**, Mpasios M. and Douligeris C. (2013). *Combining technologies with the ECFS file system*. 12th IEEE International Conference on Information Technology Based Higher Education and Training (ITHET2013), 10-12 October, Antalya, Turkey. IEEE Conference Proceedings, pp.1-4. <http://dx.doi.org/10.1109/ITHET.2013.6671055>.
- [13] Mpasiou V., **Kallergis D.**, Chimos K., Karvounidis T. and Douligeris C., (2013). *High Yield Municipal Bonds Regarded as An Attractive Investment*. 9th International Conference of Hellenic Society for Systemic Studies (HSS2013), 11-13 July, Volos, Hellas.
- [14] Mpasiou V., **Kallergis D.**, Chimos K., Karvounidis T. and Douligeris C. (2013). *Life expectancy at birth-a global analysis*. 9th International Conference of Hellenic Society for Systemic Studies (HSS2013), 11-13 July, Volos, Hellas.
- [15] **D. N. Kallergis**, I.E. Foukarakis and G. N. Prezerakos, (2010). *Design issues for distributed mobile social networks*. 5th International Conference eRA, 15-18 September, Piraeus, Hellas. International Conference eRA Proceedings, pp.131-137. <http://arxiv.org/abs/1410.4972>
- [16] A. S. Rizopoulos, **D. N. Kallergis** and G. N. Prezerakos, (2010). *Security Evaluation for Mail Distribution Systems*. 5th International Conference eRA, 15-18 September, Piraeus, Hellas. International Conference eRA Proceedings, pp.343-349. <http://arxiv.org/pdf/1411.4630v1>
- [17] Lampros Goussis, Ioannis E. Foukarakis and **Dimitrios N. Kallergis**, (2010). *Aspects and Challenges of Mashup Creator Design*. 14th Panhellenic Conference on Informatics (PCI2010), 10-12 September, Tripoli, Hellas. IEEE Conference Proceedings, pp.38-42. <http://dx.doi.org/10.1109/PCI.2010.22>.

INVITED TALKS IN CONFERENCES & SYMPOSIA

- “How smart a Smart City can be?”, 6th InfoCom Mobile World, 21 April 2016, Athens, Greece.

SESSION CHAIR IN SCIENTIFIC CONFERENCES

- “Session 4B: Information Technology”, 14th IEEE International Symposium on Signal Processing and Information Technology (ISSPIT2014), 15-17 December 2014, Noida, India.

SCIENTIFIC COMMITTEES IN INTERNATIONAL CONFERENCES

- *Technical Program Committee* (TPC) Member in International Conference on Computer Intelligent Systems & Networking (ICCISN' 2018), February 2018, Dubai, UAE

- *International Committee* Member in 5th IEEE Electrical Engineering, Computer Science and Informatics Conference (EECSI 2017), 19-21 September 2017, Yogyakarta, Indonesia
- *Technical Program Committee (TPC)* Member in 22nd IEEE Symposium on Computers and Communications (ISCC 2017), 3-6 July 2017, Heraklion, Greece
- *Local Organising Committee* Member in 8th IEEE Global Engineering Education Conference (EDUCON 2017), 25-28 April 2017, Athens, Greece
- *Reviewer* in numerous international IEEE Conferences (2013-2017).

LANGUAGES

- English (fluent)

SCIENTIFIC / PROFESSIONAL MEMBERSHIPS

- Member of Institute of Electrical and Electronics Engineers - IEEE (#80343029) since 2002.
Also, member of:
 - ✓ IEEE Computer Society,
 - ✓ IEEE Society on Social Implications of Technology (SSIT),*and of the following IEEE Communities:*
 - ✓ Internet of Things Community,
 - ✓ Cloud Computing Community,
 - ✓ Internet Technology Policy Community
 - ✓ Smart Cities Community.
- Member of Greek Scientific Union of Technological Education Engineers - EETEM (#36677) since 2004.

Last updated: May 2017