CURRICULUM VITAE

OF

ANDREAS C. CONSTANTINIDES

OCTOBER 2017

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I. PERSONAL INFORMATION

Name:	Andreas Christodoulou Constantinides
Date of Birth:	28th August 1979
Place of Birth:	Nicosia, Cyprus
Nationality:	Cypriot
Sex:	Male
Marital Status:	Married, with one child
Languages:	Greek (Mother Language), English (Excellent)

II. EDUCATION

University of Essex (UoE), Colchester, Essex, UK

PhD – Doctor of Philosophy   **23 September 2009**
- The School of Computer Science and Electronic Engineering
- *Thesis Topic*: Multi-objective Deployment and Power Assignment in Wireless Sensor Networks using Metaheuristics.
- *Advisors:* Professor Dr. Qingfu Zhang and Professor Dr. Kun Yang.
- *Areas of Study:* Sensor and Mobile Ad-hoc Networks, Computational Intelligence

M.Sc. (*Dist.*) – Master of Science (*Distinction*)   **June 2005**
- Department of Electronic Systems Engineering
- Thesis Topic: An interactive simulator for routing in mobile ad-hoc networks
- Advisor: Dr. David Hunter
- Area of Study: Computer and Information Networks

Budapest University of Technology and Economics (BUTE), Budapest, Hungary

B.Sc. (*Hons*) – Bachelor of Science (*Honors*)   **June 2004**
- Faculty of Electrical Engineering and Informatics
- Overall weighted average: 100% (5.00 out of max possible 5.00)
- Thesis Topic: Pathfinding Algorithms for Intelligent Agents: A Pacman Game
- Advisor: Dr. Borbala Benko Katalin
- Area of Study: Specialization on Computer Engineering.

Higher Technical Institute (HTI), Nicosia, Cyprus

Higher National Diploma (HND)   **June 2000**
- Department of Electrical Engineering
- Thesis Topic: Literature investigation on electronic devices: Applications and implementations
- Advisor: Dr. C. C. Marouchos
- Area of Study: Electrical and Electronic Engineering

III. APPOINTMENT HISTORY

Lecturer   April 2016 to present
Frederick University, Department of Computer Science and Engineering, Nicosia, Cyprus

Senior Researcher   June 2010 to present
Frederick Research Center, Nicosia, Cyprus

Visiting Lecturer - Full Time   September 2009 to 2016
Frederick University, Department of Computer Science and Engineering, Nicosia, Cyprus

Post-Doctoral Research Associate   Jan. 2011 to Dec. 2014
University of Cyprus, Department of Computer Science, Nicosia, Cyprus

Visiting Lecturer Position Offer   26 August 2010
University of Cyprus, Department of Computer Science, Nicosia, Cyprus

Special Scientist (Research & Teaching Assistant)   Sep. 2009 to Dec. 2010
University of Cyprus, Department of Computer Science, Nicosia, Cyprus

Teaching Assistant   Oct. 2005 to Jan. 2009
University of Essex, Colchester, Essex, UK

IV. RESEARCH INTERESTS

Mobile Computing and Networks (Smartphone Systems, Crowdsourcing, Localization, Privacy, Mobile (Social) Networks; Wireless Sensor Networks; Mobile ad hoc networks); **Computational Intelligence** (Heuristic & Metaheuristic search; Evolutionary Computation); **(Multi-Objective) Optimization & Constraint Handling**;

V. PUBLICATIONS

Refereed Journal Papers and Magazines

,
[J.1] Harris Papadopoulos, Nestoras Georgiou, Charalambos Eliades and **Andreas Konstantinidis,** "Android Malware Detection with Unbiased Confidence Guarantees." Neurocomputing, Elsevier, 2017 (accepted).

[J.2] Andreas Konstantinidis, Georgios Chatzimilioudis, Demetrios Zeinalipour-Yazti, Paschalis Mpeis, Nikos Pelekis and Yannis Theodoridis, "Privacy-Preserving Indoor Localization on Smartphones", IEEE Transactions on Knowledge and Data Engineering, (IEEE TKDE), 2015.

[J.3] Georgios Larkou, Marios Mintzis, Panayiotis G. Andreou, **Andreas Konstantinidis**, Demetrios Zeinalipour-Yazti, **"Managing big data experiments on smartphones"**, *Distributed and Parallel Databases* (DAPD '14), Springer US, Pages: 1-32, 2014.

[J.4] Andreas Konstantinidis, Savvas Pericleous, Christoforos Charalambous "Adaptive Evolutionary Algorithm for a Multi - Objective VRP". ", International Journal on Engineering Intelligent Systems, CRL, May 2014.

[J.5] Andreas Konstantinidis, Demetrios Zeinalipour-Yazti, Panayiotis Andreou, George Samaras, and Panos Chrysanthis, "Intelligent Search in Social Communities of Smartphone Users", Distributed and Parallel Databases (DAPD'13), Springer Press, Vol: 31, No: 2 Pages: 115-149, 2013.

[J.6] Georgios Larkou, Panayiotis Andreou, **Andreas Konstantinidis**, Demetrios Zeinalipour-Yazti. "SmartLab: Empowering Mobile Computing Research through an Open Smartphone Cloud." ERCIM News 2013 Special Theme: Mobile Computing (93) (2013).

[J.7] Georgios Chatzimilioudis, **Andreas Konstantinidis**, Christos Laoudias and Demetrios Zeinalipour-Yazti,, "Crowdsourcing with Smartphones", IEEE Internet Computing, SI: Crowdsourcing, 2012.

[J.8] Andreas Konstantinidis and Kun Yang, "Multi-objective Energy-efficient Dense Deployment in Wireless Sensor Networks using a Hybrid Problem-specific MOEA/D", Applied Soft Computing, Elsever, vol.11-6, pp. 4117-4134, Sept. 15, 2011.

[J.9] Andreas Konstantinidis, Haris Haralambous, Alexandros Agapitos and Harris Papadopoulos,``A GP-MOEA/D Approach for Modelling Total Electron Content over Cyprus", International Journal on Engineering Intelligent Systems, CRL, May 2011.

[J.10] Andreas Konstantinidis and Kun Yang, "Multiobjective K-Connected Deployment and Power Assignment in WSNs using a Problem-specific Constrained Evolutionary Algorithm based on Decomposition", Computer Communications, Elsevier, vol. 34, pp. 83-98, 2011.

[J.11] Andreas Konstantinidis, Kun Yang, Qingfu Zhang and Demetrios Zeinalipour-Yazti, "A Multi-Objective Evolutionary Algorithm for the Deployment and Power Assignment Problem in Wireless Sensor Networks", SI-New Network Paradigms, Computer Networks, Elsevier, vol. 54, pp. 960-976, 2010.

[J.12] Andreas Konstantinidis, Kun Yang, Hsiao-Hwa Chen and Qingfu Zhang, "Energy Aware Topology control for Wireless Sensor Networks Using Memetic Algorithms", Computer Communications, Elsevier, vol. 30, no. 14-15, pp. 2753-2764, 2007.

Refereed Book Chapters
[B.1] Georgios Chatzimilioudis, **Andreas Konstantinidis** and Demetrios Zeinalipour-Yazti "Scalable All k Nearest Neighbor Search,", In Information Granularity, Big Data, and Computational Intelligence, Editors: Shyi-Ming Chen and Prof. Witold Pedrycz, Springer Press, 2014.

[B.2] Andreas Konstantinidis and Demetrios Zeinalipour-Yazti "A P2P Search Framework for Intelligent Mobile Crowdsourcing,", In Opportunistic Mobile Social Networks, Editors: Jie Wu, Yunsheng Wang, CRC Press, 2013

Refereed Conference, Workshop and Demo Papers

[C.1] Achilleas Achilleos, Kyriaki Georgiou, Christos Markides, **Andreas Konstantinidis** and George Papadopoulos, "Adaptive Runtime Middleware: Everything as a Service", 9th International Conference on Computational Collective Intelligence (ICCCI '17), September, 2017.

[C.2] Savvas Pericleous, **Andreas Konstantinidis,** Achilleas Achilleos and George Papadopoulos, "Generic Hybridization of MOEA/D with Learning for Permutation Flow Shop Scheduling Problem", 8th International Conference on Information, Intelligence, Systems and Applications (IISA2017), Golden Bay Hotel, Larnaca, Cyprus, Greece, August 28-30, 2017.

[C.3] Andreas Konstantinidis, Georgios Chatzimilioudis, Demetrios Zeinalipour-Yazti, Paschalis Mpeis, Nikos Pelekis and Yannis Theodoridis, "Privacy-Preserving Indoor Localization on Smartphones", The 14 Hellenic Data Management Symposium (HDMS '16), Athens, Greece, 2016.

[C.4] Nestoras, Georgiou, **Andreas Konstantinidis** and Harris Papadopoulos, Malware Detection with Confidence Guarantees on Android Devices", Artificial Intelligence Applications and Innovations (AIAI 16), pp.407-418, September 2016.

[C.5] Andreas Konstantinidis, Georgios Chatzimilioudis, Demetrios Zeinalipour-Yazti, Paschalis Mpeis, Nikos Pelekis and Yannis Theodoridis, "Privacy-Preserving Indoor Localization on Smartphones (Extended Abstract)"**,** Proceedings of the 2016 IEEE 32nd International Conference on Data Engineering (ICDE '16), IEEE Computer Society, pp. , Helsinki, Finland, ISBN: , 2016.

[C.6] Andreas Konstantinidis, George Nikolaides, Georgios Chatzimilioudis, Giannis Evagorou Demetrios Zeinalipour-Yazti and Panos K. Chrysanthis, "RadioMap Prefetching for Indoor Navigation in Intermittently Connected WiFi Networks", IEEE Mobile Data Management, MDM'15, 2015.

[C.7] Georgios Larkou, Constantinos Costa, Panagiotis Andreou, **Andreas Konstantinidis**, and Demetrios Zeinalipour-Yazti, "Management of Smartphone Mockup Experiments with SmartLab" IEEE Mobile Data Management, MDM'15, 2015 (accepted).

[C.8] Andreas Konstantinidis, George Nikolaides, Georgios Chatzimilioudis, Giannis Evagorou Demetrios Zeinalipour-Yazti and Panos K. Chrysanthis, "RadioMap Prefetching for Indoor Navigation in Intermittently Connected WiFi Networks", The 13th Hellenic Data Management Symposium (HDMS 2015), Athens, Greece, 2015.

[C.9] Georgios Larkou, Marios Mintzis, Stefano Taranto, **Andreas Konstantinidis,** Panagiotis Andreou, Demetrios Zeinalipour-Yazti , "Demonstration Abstract: Sensor Mockup Experiments with Smartlab", "Proceedings of the ACM/IEEE Information Processing in Sensor Networks" (ACM/IEEE IPSN'14), Berlin, Germany, 2014.

[C.10] Georgios Larkou, Constantinos Costa, Panagiotis Andreou, **Andreas Konstantinidis**, Demetrios Zeinalipour-Yazti , "Managing Smartphone Testbeds with SmartLab", "Proc. of the 27th USENIX Large Installation System Administration Conference" (LISA '13), Washington D.C., USA, 2013.

[C.11] Christophoros Kronis, **Andreas Konstantinidis** and Harris Papadopoulos, "Human-Like Agents for a Smartphone First Person Shooter Game using Crowdsourced Data", IFIP Artificial Intelligence Applications & Innovations (AIAI'13), Springer, Paphos, Cyprus 2013.

[C.12] Andreas Konstantinidis, Savvas Pericleous and Christoforos Charalambous "MOEA/D for a Tri-Objective Vehicle Routing Problem", IFIP Artificial Intelligence Applications & Innovations (AIAI'13), Springer, Paphos, Cyprus 2013.

[C.13] Andreas Konstantinidis, Constantinos Costa, Georgios Larkou and Demetrios Zeinalipour-Yazti,, "Demo: A Programming Cloud of Smartphones", The 10th International Conference on Mobile Systems, Applications and Services (MobiSys'12), 25-29 June, 2012, Low Wood Bay, Lake District, United Kingdom

[C.14] Andreas Konstantinidis, Georgios Chatzimilioudis, Christos Laoudias, Silouanos Nicolaou and Demetrios Zeinalipour-Yazti , "Towards Planet-Scale Localization on Smartphones with a Partial Radiomap", ACM HotPlanet, The 4th ACM International Workshop on Hot Topics in Planet-Scale Measurement, co-located with the 10th International Conference on Mobile Systems, Applications and Services (MobiSys'12), 25-29 June, 2012, Low Wood Bay, Lake District, United Kingdom

[C.15] Andreas Konstantinidis, Christos Aplitsiotis and Demetrios Zeinalipour-Yazti,, "SmartP2P: A Multiobjective Framework for Finding Social Content in P2P Smartphone Networks", International Conference on Mobile Data Management (MDM), July 23 - 26, 2012, Bangalore, India.

[C.16] Christoforos Charalambous, **Andreas Konstantinidis** and Savvas Pericleous, "Selecting the Product Portfolio for Production in Manufacturing Systems Using Multi-objective Evolutionary Algorithms Based on Decomposition", 9th International Conference on Computational Management Science, London, UK, 18-20 April, 2012

[C.17] Panayiotis Andreou, Panagiotis Germanakos, **Andreas Konstantinidis**, Dimosthenis Georgiadis, Marios Belk and George Samaras, "USN: Towards User-Centric Social Networks",Intern. Conf. on Web Information Systems and Technologies (WebIST), 2012.

[C.18] Andreas Konstantinidis, Demetrios Zeinalipour-Yazti, Panayiotis Andreou, George Samaras "Multi-Objective Optimization of Query Routing Trees in Smartphone Social Networks", The 10th Hellenic Data Management Symposium (HDMS 2011), Athens, Greece, 2011.

[C.19] Andreas Konstantinidis, Demetrios Zeinalipour-Yazti, Panayiotis Andreou, George Samaras "Multi-Objective Query Optimization in Smartphone Social Networks", The 12th International Conference in Mobile Data Management (MDM), Lulea, Sweden 2011.

[C.20] Andreas Konstantinidis, Demetrios Zeinalipour-Yazti and Kun Yang "Socially-aware Query Routing in Mobile Networks", Hellenic Data Management Symposium, Ayia Napa, Cyprus 2010.

[C.21] Andreas Konstantinidis, Christoforos Charalambous, Aimin Zhou and Qingfu Zhang, "Multi-objective Mobile Agent-based Sensor Network Routing using MOEA/D", IEEE World Congress on Computational Intelligence (CEC'10), Barcelona, Spain, 2010.

[C.22] Alexandros Agapitos, **Andreas Konstantinidis**, Haris Charalambous and Harris Papadopoulos "Evolutionary Prediction of Total Electron Content over Cyprus", Artificial Intelligence Applications & Innovations, Springer, Ayia Napa, Cyprus 2010.

[C.23] Aimin Zhou, **Andreas Konstantinidis** and Qingfu Zhang, "Parameter Evolution for a Particle Swarm Optimization Algorithm", International Conference on Swarm Intelligence, Beijing, China, 2010.

[C.24] Andreas Konstantinidis, Kun Yang, Qingfu Zhang and Fernando Gordejuela- Sanchez, "Multiobjective K-connected Deployment and Power Assignment in WSNs using

constraint handling", Topology Management, IEEE Global Communications Conference, GlobeCom'09, Honolulu, Hawaii, USA 2009.

[C.25] **Andreas Konstantinidis**, Qingfu Zhang and Kun Yang, "A Subproblem-dependent Heuristic in MOEA based on Decomposition for the Deployment and Power Assignment Problem in Wireless Sensor Networks", IEEE Congress on Evolutionary Computation, CEC'09 Evolutionary Optimization, Trondheim, Norway, March, 2009.

[C.26] **Andreas Konstantinidis**, Kun Yang and Qingfu Zhang, "Problem-specific Encoding and Genetic Operation for a Multi-Objective Deployment and Power Assignment Problem in Wireless Sensor Networks", IEEE International Conference on Communications", ICC'09 AHSN, Dresden, Germany, June 2009.

[C.27] **Andreas Konstantinidis**, Kun Yang and Qingfu Zhang, "An Evolutionary Algorithm to a Multi-Objective Deployment and Power Assignment Problem in Wireless Sensor Networks", IEEE Global Communications Conf., GlobeCom'08, New Orleans, USA, 2008.

[C.28] Alexandros Agapitos, Julian Togelius, Simon M. Lucas, Jurgen Schmidhubers and **Andreas Konstantinidis**. "Generating Diverse Opponents with Multiobjective Evolution", IEEE Computational Intelligence and Games, CIG'08, Perth, Australia, 15 Dec. 2008.

[C.29] **Andreas Konstantinidis**, Qingfu Zhang, Kun Yang and Ian Henning, "On Energy Aware Topology control of Sensor Networks Using Modern Heuristics" IEEE Global Communications Conf., GlobeCom'06, WSN 19-5, pp. 1-5, San Francisco, USA, Nov. 2006.

Technical Reports

[TR.1]   P. Andreou, P. Germanakos, **Andreas Konstantinidis**, Dimosthenis Georgiadis, Marios Belk, G. Samaras**. "USN: Multi-Objective User-centric Social Networks with Decision Making", TR-11-1, Dep. of Computer Science, University of Cyprus, Jan, 2011.

[TR.2] **Andreas Konstantinidis** and John Oyekan, "Hierarchical Sensor Network Planning using a bio-inspired Hyperheuristic', PhD Computer science and Electronic Engineering Conference (PhD CEEC '09), In Proc. of the School of Computer Science and Electronic Engineering Technical Report Series, 2009.

Theses

[TH.1] **Andreas Konstantinidis, PhD.** "Multi-objective Deployment and Power Assignment in Wireless Sensor Networks using Metaheuristics", University of Essex. Supervisors: Prof. Qingfu Zhang and Dr. Kun Yang.

[TH.2] **Andreas Konstantinidis, MSc (Distinction).** "An Interactive Simulator for Ad-Hoc Mobile Networks", University of Essex. Supervisor: Dr. David Hunter.

[TH.3] **Andreas Konstantinidis, BSc (Honors).** "Pathfinding Algorithms for Intelligent Agents: A Pacman Game Application", Budapest University of Technology and Economics. Supervisor: Dr. Borbala Benko Katalin.

VI. CITATIONS

The following citation statistics were obtained Google Scholar, June 2015:

VII. ACADEMIC AND TEACHING EXPERIENCE

Frederick University, Department of Computer Science and Engineering, Cyprus
Teaching (Postgraduate Level):

Software Development for Mobile Devices, Interactive Systems Design for Mobile and Web Applications, Research Seminar Series I, II, Research Proposal, Master Thesis

Teaching (Undergraduate Level):

Mobile and Ubiquitous Computing (includes Windows Phone and Windows 8 development), Visual Programming (includes Visual C# and Windows Phone GUI design) Signal, Systems and Transforms (includes Matlab), Software Methodology (includes Java, SQL, Access, JDBC), Data Communications and Computer Networks, Local and Metropolitan Area Networks, Interconnection Networks, Object-oriented Programming (includes Java), Computer Programming for Engineers (includes VB .Net), Programming Principles (includes C), Programming Principles I (includes C++), Programming Principles II (includes C++), Assembly Programming Language (includes MicroProc-8086), Computer Application Packages, Circuit Analysis Lab, Word Processing (in Greek), Project

Supervision Undergraduate Level (2009-Present)
Current Students: 4
Successfully Completed: 45
Representative Projects:
- Christoforos Kronis, An Augmented Reality Application on Smartphone Networks with AI agents using crowdsourcing techniques under a Cloud-based Framework, Undergraduate Computer Engineering, 2012- 2013
- Melina Marangou, Noise-Less Pathfinding using Crowdsourced Noise Data on Smartphone Networks, Undergraduate Computer Science, 2012- 2013
- Adamos Adamou, "Eyes4U: Aggressive Behavior Detection: A Kinect & Windows Phone Application", Undergraduate Computer Science, 2011- 2012

Supervision Postgraduate Level (2013-Present)
Current Students: 4
Successfully Completed: 2
Representative Projects:
- Nestoras Georgiou, "Malware Detection on Smartphones using Machine Learning", MSc in Web and Mobile Systems, 2013-2015
- Christoforos Kronis, "A social business intelligence platform for Smart media planning", MSc in Web and Mobile Systems, 2013-2015

Development or modification of syllabi, TESE (Tuning Educational Structures in Europe) forms and material of the following Bachelor and Master courses:

- Undergraduate Level (BSc and BEng)

  ACSC423 – Mobile and Ubiquitous Computing (includes WP/W8 development)

  ACSC359 - Software Methodology (includes Java, SQL, Access, JDBC)

  ACSC299 – Visual Programming (includes C\# and Android development)

  AELE210 – Signal, Systems and Transforms (includes Matlab)

- Postgraduate Level (MSc in Web and Mobile Systems)

  ACSC503 – Software Development for Mobile Devices (includes WP/W8 and Android development)

  ACSC505 – Interactive Systems Design for Web and Mobile Applications

University of Cyprus, Department of Computer Science, Nicosia, Cyprus

Post-Doctoral Research Associate

Research on Smartphones and Mobile Social Networks In collaboration with Dr. Demetrios Zeinalipour-Yazti

- Undergraduate Mentoring (Successfully Completed)
  - Giannis Evagorou, Indoor Localization using Big Data, 2013-2014
  - Paschalis Mpeis, VectorMap and SmartLib projects, 2012-2013
  - Silouanos Nicolaou, Airplace and BloomMap projects, 2011-2012
  - Costas Aplitsiotis, Spatio-Temporal Query Processing using Android Smart Phones, 2011-2012
- Postgraduate Mentoring (Successfully Completed)
  - Adamos Adamou, Scalable Trajectory Grouping with k-Anonymity Guarantees, 2013-2014

Special Scientist (Research & Teaching Assistant)

- Research
  - Social Data Management and Query Routing Trees Optimization on Smartphone Networks
  - In collaboration with Ass. Prof. Dr. Demetris Zeinalipour-Yazti
- Teaching
  - Databases laboratory
  - Provided in-class support to undergraduate students
  - Graded assignments on database management systems

University of Essex (UoE), Colchester, Essex, UK

Teaching Assistant

- Assisted Java Software laboratory
- Provided in-class support to MSc engineering students
- Graded assignments on programming and drafting

Computer International Institute, Larnaca, Cyprus
> **Tutor (June to September, 2005)**
> - Lectured Java Programming language.
> - Trained undergraduate engineering students.

VIII. ADMINISTRATIVE ACTIVITIES AND RESPONSIBILITIES

Administrative Roles

- **Director MSc in Web & Mobile Systems**: *Program Coordinator & contact person. Participated in the development of the application for approval: Development of the Program Structure, Syllabi, Program Objectives and Learning Outcome, etc.*
- **BSc in Marketing with Digital Technologies**
  Participates in the development of the application for approval: Development of the Program Structure, Syllabi, Program Objectives and Learning Outcome, etc.
- ***Promotion Committee:*** *Member of the Departmental Promotion Committee. Representative for promoting the department at high schools.*

Director of the Mobile Devices Laboratory (MDL)
Established 10th of July, 2012 at Frederick University, sponsored by Microsoft Cyprus and supported by Cyprus Telecommunications Authority (CYTA), MTN and CyRIC

- Industrial Grants and Sponsorships (***Total: >60,000 euro***)
  - Microsoft Cyprus (Major Sponsor) Establishment of the MDL – 10000 euro
  - CYTA (Strategic Partner) Equipment: Smartphones, Data Cards – 4000 euro
  - IBSCy Development of Cloud-based services – 8,000 euro
  - Microsoft Cyprus: Open Government Data Initiative Grant – $17000
  - Thermooitida Agapis – 2000 euro
  - PBT – Annual Sponsorship - 500 euro per month
  - Microsoft Cyprus: Freewheel – 2000 euro
  - Engino.net LTD: Sponsorship – 3500 euro
  - Post-Office Cyprus: Sponsorship – 2000 euro
  - Dromon Bureau: Sponsorship – 1600 euro
  - Lamda Card Services – 2500 euro
  - CyMAR: Project Development – 2650 euro
  - Powersoft: Projects Development – 5000 euro
  - C.E. Innovation Retaliation IT Solutions Ltd – 1000 euro
  - Amazing Destinations: Project Development - 750 euro

- MDL Social Responsibility
  - Anti-drug Council Cyprus: Ask 4 Alcocheck Applications

- MDL Publications

- Christophoros Kronis, Andreas Konstantinidis and Harris Papadopoulos, "Human-Like Agents for a Smartphone First Person Shooter Game using Crowdsourced Data", IFIP Artificial Intelligence Applications & Innovations (AIAI'13), Springer, Paphos, Cyprus 2013.
- Yiannis Hadjicharalambous and Andreas Konstantinidis. "A Multi-Objective Wireless Sensor Network Deployment for Real-Time Monitoring of Forest Fires". 6th Cyprus Workshop on Signal Processing and Informatics, University of Cyprus, July, 2013

- MDL Systems and Prototypes (developed/involved in the development):
  - Smart Eco Cultivation System
  - Engino kid CAD: Mobile Model Viewer
  - AR Shooter: An Augmented Reality Shooter Game for Smartphones
  - SmartP2P: MOO P2P Search Framework for Smartphones
  - SkyGuide: A Real-time MOO Skyline Smartphone Guide
  - NoiseLessP: A Noiseless Path Finder for Smartphones
  - ScoutGuideCY: An Advanced Scouts Guide for Android Users
  - SmartLab: A programming cloud of Smartphones
  - TreasureHunt: A real-time location-aware treasure hunt application
  - RoadTripPlanner: A real-time location-aware road-trip planner and advisor

- MDL Portfolio

  Smartphone Applications Published (**Total Downloads: >160 000**):
  - Car Racing 3D Game – Google Play, Windows Phone an Windows store
  - Cyprus Radio – Google Play, Windows Phone an Windows store
  - Ask 4 Alcocheck – Google Play, Microsoft Apps & Games store
  - Smart AppKeeper – Google Play
  - WiFi ARP Guard – Google Play
  - Brain Battles – Microsoft Apps & Games store
  - Mobikids Par – Microsoft Apps & Games store
  - Cyprus and Greece Radio – Microsoft Apps & Games store
  - Frederick Mobile – Google Play Store, Microsoft Apps & Games store
  - Soccer Hub – Microsoft Apps & Games store
  - Geo Alarm – Microsoft Apps & Games store
  - Eortologio – Microsoft Apps & Games store

  Cloud (open) databases
  - OSEL (Transportation Organization of Nicosia District)
  - CTO (Cyprus Tourism Organization)

- Other Achievements:
  - MDL Developers/Frederick Undergraduate Students – **World Finalists** – **Qualified in top-32 teams of the World** out of 150 teams from 64 countries.
  - MDL Developers/Frederick Undergraduate Students – **First in Microsoft Imagine Cup Competition** – Category World Citizenship – 2015
  - Cyprus Radio – **Best Free App** in Google Play Music & Audio category

- MDL Developers/Frederick Undergraduate Students – **First in Microsoft Hackathon Competition** – Sponsored by Microsoft – Hosted by UCY – 2012
- Local and Hellenic Press Extensively Covered MDL Innovations
- MDL presented projects and represented Frederick in several TV shows.

- Internships:
  - Demetris Demetriou: University of Dundee Graduate – Cyprus Futsal Finder
  - Paschalis Mpeis: UCY Graduate – CyMAR Project
  - Christodoulos Parmatzias: Frederick Graduate – ExchangeIT Project
  - Chsristodoulos Kyprianides: Frederick Undergraduate – Psychological Test App on Android Project – ACOE399
  - Valentinos Ioannou: Frederick Undergraduate – GeoAlarm – ACOE399
  - Levin Masis:Frederick Undergraduate – Carpooling – ACOE399

- Events Organized at Frederick University
  - Micrososft Techlite Workshop 2014,2013, 2012
  - Microsoft Imagine Cup Competition, 2012

- Events participated/represented Frederick University
  - Microsoft Imagine Cup Competition, Hosted by UNic, 2015
  - Science Rocks, organized by Research Promotion Foundation, Cyprus, 2014
  - Microsoft Imagine Cup Competition, Hosted by EUC, 2014
  - Science Rocks, organized by Research Promotion Foundation, Cyprus, 2013
  - Microsoft Imagine Cup Competition, Hosted by TEPAK, 2013
  - Hackathon Competition, Hosted by UCY, 2013
  - Microsoft Imagine Cup Competition, Hosted by Frederick, 2012
  - Microsoft Imagine Cup Competition, Hosted by UCY, 2011

- Contact Details:
  Email: mdl-lab@frederick.ac.cy
  Web Site: http://mdl.frederick.ac.cy/
  Facebook: MDL Frederick
  Twitter: @MDL_Frederick

IX. RESEARCH PROJECTS AND GRANTS

iLIFE-Troodos (LIFE PROGRAMME EU)   **2017-2020**
- Call: Life Programme
- Title: iLIFE-Troodos - Troodos National Forest Park: Promoting natural values and Ecosystem Services
- Role: Technical Manager
- Budget: European Union

- Organizations: Frederick University, Game and Fauna Service Terra Cypria (Cyprus), Dpertment of Environment (Cyprus), Contact

Fuel Watch (Public Procurement)   **2017-2020**
- Call: Innovation Programme
- Title: Fuel-Watch service
- Role: Principal Investigator
- Budget: Ministry of Energy, Commerce Industry and Tourism, Cyprus – €92,000
- Organizations: Frederick University, CONEL

Web platform (Public Procurement)   **2015-2017**
- Call: Upgrading the department of environment's web platform
- Title: Web platform for managing environmental legislations
- Role: Technical Manager / Principal Investigator
- Budget: Department of Environment – €5,000
- Organizations: Frederick University, DoE

FP7 (Grant Agreement No 611421)   **2013-2016**
- Title: Miraculous (FP7-ICT-2013-10) Miraculous-Life for Elderly Independent Living
- Role: Researcher
- Budget: European Union – €3.2M
- Organization: University of Cyprus

Research Promotion Foundation, Cyprus   **2014-2016**
- Title: Investigation of earthquake signatures in the ionosphere over Europe
- Role: Researcher
- Budget: €25,000
- Organization: Frederick University

Research Promotion Foundation, Cyprus   **2012-2014**
- Title: Cyprus Ionospheric Forecasting service
- Role: Researcher
- Budget: €150,000
- Organization: Frederick University

EU European Cooperation in Science and Technology (COST)   **2009-2013**
- Title: MOVE (COST Action IC0903)
- Role: Associated Member – DMSL, UCY

EU FET-OPEN   **2009-2012**
- Title: MODAP - Mobility, Data-mining And Privacy

- Role: Associated Member – DMSL, UCY

Research Promotion Foundation, Cyprus   **2009-2012**
- Title: FireWatch: Fire detection/prediction of Cyprus forests using Wireless Sensor Networks
- Role: Researcher
- Budget: €160,000
- Organization & Partners: University of Cyprus, Ministry of Agriculture – Department of Forests, TC Geomatic Technologies LTD, CITARD Services LTD

Research Promotion Foundation, Cyprus   **2009-2012**
- Title: Novel Technologies for Production Planning in Flexible Supply Chains
- Role: Researcher
- Budget: €164,000
- Organization & Partners: Frederick University, American University of Beirut, Sadolin CY Ltd

X. INDUSTRIAL GRANTS & SPONSORSHIPS

Microsoft Cyprus and Frederick University (co-funded)   **2012 – present**
- Title: Establishment of the Mobile Devices Laboratory (MDL)
- Role: Director
- Budget: €15,000 (in equipment)

Cyprus Telecommunications Authority (CYTA)   **2014 – 2016**
- Title: Strategic Partnership for research and development
- Role: Director
- Budget: €4,000 (in equipment)

Pay By Tech (PBT)   **2015 – 2016**
- Title: Cloud-based CRM and smartphone apps
- Role: Director
- Budget: €500 euro per month

Dromon Bureau of Shipping   **2015 – 2016**
- Title: Smartphone apps
- Role: Director
- Budget: €2000 euro

Microsoft Cyprus   **2013 – 2015**
- Title: Open Government Data Initiative
- Role: Director
- Budget: $17,000

Microsoft Cyprus   **2014 – 2015**
- Title: Freewheel – Cyprus Paraplegics Association
- Role: Director

- Budget: €2,000

Engino.net LTD   **2014 – 2015**
- Title: Engino Model Viewer smartphone applications
- Role: Director
- Budget: €2,000

Post-office Cyprus   **2013 – 2014**
- Title: Smartphone apps
- Role: Director
- Budget: €2000 euro

Lamda Cards Services   **2015 – 2016**
- Title: Smartphone apps
- Role: Director
- Budget: €2500 euro

CyMAR Market Research LTD   **2012 – 2013**
- Title: Android Application Development
- Role: Director
- Budget: €2,650

Powersoft Computer Solutions LTD   **2012 – present**
- Title: Windows Phone 7/8 and Windows 8/10 Applications Development
- Role: Director
- Budget: €5,000

C.E. Innovation Retaliation IT Solutions Ltd   **2012 – 2013**
- Title: Windows Phone 7 Application Development
- Role: Principal Investigator
- Budget: €1000

Amazing Moments DMC LTD   **2012 – 2013**
- Title: Windows Phone 7 Application Development
- Role: Principal Investigator
- Budget: €750

XI. TALKS, PRESENTATIONS & MEDIA APPEARANCES

Invited Talks

- "Εκπαιδευτικό Εργαστήρι σε Θέματα Σύγχρονου Μάρκετινγκ για Άνεργους Πτυχιούχους", Frederick University, Cyprus, 2 Φεβρουαρίου 2015

- "Privacy-preserving Indoor Localization on Smartphones", 7th Webdatanet MC, WG, TF Meetings, Workshops + Conference on Mobile Research, Larnaca, Cyprus 31 March - 2 April 2014

- "Πώς τα smartphone applications μπορούν να ενισχύσουν το e-business σας", 6ο Συνέδριο Ηλεκτρονικού Εμπορίου, Ξενοδοχείο Hilton Park, Λευκωσία, Τρίτη 8 Απριλίου 2014

- "Intelligent Search in Social Communities of Smartphone Users", Science Day @University of Cyprus, 2012

- "*Multi-Objective Optimization in Wireless Sensor Networks using Metaheuristics*", CS Department @ Frederick University, Cyprus, 2009

- "*Hierarchical Sensor Network Planning using a bio-inspired Hyperheuristic*", PhD Computer science and Electronic Engineering Conference @ Essex, UK, 2009

Media Appearances

- " Mobile Devices Laboratory", ΡΙΚ1, ΕΙΜΑΣΤΕ ΕΔΩ με τη Φανή Σωκράτους, 25 Φεβρουαρίου 2015

- "Ask 4 Alcocheck Smartphone Application", MEGA Channel, ΚΑΛΗΜΕΡΑ ΚΥΠΡΟΣ με τον Παναγιώτη Δημόπουλο, 2014

- "Great Results from College Professor's app-creating team", Sunday Mail, December 2012

Presentations

- "*Multi-Objective Optimization of Query Routing Trees in Smartphone Social Networks*", The 10th Hellenic Data Management Symposium, Greece, 2011

- "*Socially-aware Query Routing in Mobile Networks*", The 9th Hellenic Data Management Symposium, Cyprus, 2010

- "*A Subproblem-dependent Heuristic in MOEA based on Decomposition for the Deployment and Power Assignment Problem in Wireless Sensor Networks*", IEEE Congress on Evolutionary Computation, CEC'09 Evolutionary Optimization, Trondheim, Norway, March, 2009

- "*An Evolutionary Algorithm to a Multi-Objective Deployment and Power Assignment Problem in Wireless Sensor Networks*", IEEE Global Communications Conference, GlobeCom'08, New Orleans, USA, 30 Nov. 2008

XII. AWARDS/SCHOLARSHIPS

Microsoft Cyprus
- 2013 Open Government Data Initiative Grant
- 2012 Mobile Devices Laboratory Establishment Grant

IEEE Computational Intelligence Society
- 2009 Congress of Evolutionary Computation Student Scholarship.

University of Essex (UoE)
- Research Endowment Fund for remarkable achievements in 1st year PhD studies, Electronic Systems Engineering Department, 2006-2008
- Postgraduate Research Scholarship, Electronic Systems Engineering Department, 2005-2008
- University of Essex Full Scholarship, 2005-2008
- Engineering and Physical Sciences Research Committee Fund (EPSRC), 2005-2008
- MSc Distinction in engineering, Electronic Systems Engineering Department, 2005

Budapest University of Technology and Economics, BUTE
- BSc Honors in engineering, Faculty of Electrical Engineering and Informatics, 2004.
- Reduction of fees, January-June, 2004.
- Certificate of Merit, Faculty of Electrical Engineering and Informatics, 2004
- Student of the year, Faculty of Electrical Engineering and Informatics, 2004
- Reduction of fees, September-December, 2003
- Reduction of fees, January-June, 2003
- Certificate of Merit, Faculty of Electrical Engineering and Informatics, 2003
- Student of the year, Faculty of Electrical Engineering and Informatics, 2003

XIII. OTHER DIPLOMAS & COURSES

- Web Intelligence and Big Data (Online Course @ Coursera) by Dr. Gautam Shroff Indian Institute of Technology Delhi, India, Fall 2013
- Creative Programming for Digital Media & Mobile Apps (@ Coursera) by Dr Marco Gillies, Dr Matthew Yee-King, Dr Mick Grierson, University of London, UK, Spring 2013
- Machine Learning Diploma (@ Coursera), by Professor Andrew Ng, Stanford University, USA, Spring 2011
- Graduate Demonstrator Diploma, Learning and Teaching Unit, University of Essex, 2006

XIV. PROFESSIONAL SERVICES

Committees
- **Publicity Chair:** IEEE Mobile Data Management (MDM'13), Brisbane, Australia, 2013.
- **Workshop Co-Chair:** IEEE\IFIP Embedded and Ubiquitous Computing (EUC-2012), Zhangjiajie, China, 2013.

- **Sponsorship Chair:** IFIP Artificial Intelligence Applications and Innovations (AIAI), Paphos, Cyprus, 2013.
- **Workshop Organizer:** IFIP Artificial Intelligence Applications and Innovations (AIAI), Paphos, Cyprus,   2013.
- **Vice Chair:** Sensor Network Track Chair. IEEE\IFIP Embedded and Ubiquitous Computing (EUC-2012), Paphos, Cyprus, 2012.
- **Program Committee:** Artificial Intelligence Applications and Innovations (AIAI), Halkidiki, Greece, 2012.
- **Program Committee:** IEEE International Conference on Ubiquitous Computing and Communications (IUCC-2012), Liverpool, UK, 2012.
- **Local Judge:** Microsoft Imagine Cup Competition, Nicosia, Cyprus, 2011.
- **Program Committee:** International Conference on Intelligent Computing (ICIC 2011), Zhengzhou, China, 2011.
- **Program Committee:** International Conference on Communications and Mobile Computing (CMC 2011), Qingdao, China, 2011.
- **Advisory and program committee:** PhD Computer science and Electronic Engineering Conference 2010 (IEEE CEEC10), School of Computer Science and Electronic Engineering, University of Essex, UK, 2010.
- **Program Committee:** Arificial Intelligence, Applications and Innovations (AIAI), Ayia Napa, Cyprus, October, 2010, 2011.
- **Founding member, organizing committee:** IEEE Computer science and Electronic Engineering Conference 2009 (IEEE CEEC09), School of Computer Science and Electronic Engineering, University of Essex, UK, 2009.
- **Session Chair:** Evolutionary Multi-objective Optimization (EMO) session, IEEE Congress on Evolutionary Computation, Trondheim, Norway, 2009.

Proposal Evaluator
- Σχέδιο Χορηγιών Ενίσχυσης της Επιχειρηματικής Καινοτομίας – Υπουργείο Εμπορίου – 2013 (2 applications)

Journal and Magazine Referee (Selected)
- IEEE Transactions on Mobile Computing (**IEEE TMC**)
- iEEE Transactions on Knowledge and Data Engineering (**IEEE TKDE**)
- IEEE Transactions on Evolutionary Computation (**IEEE TEVC**)
- IEEE Transactions on Systems, Man, and Cybernetics-Part A. (**IEEE SMCA**)
- IEEE Transactions on Systems, Man, and Cybernetics-Part B. (**IEEE SMCB**)
- IEEE Communication Letters.
- IEEE Internet Computing (**IEEE IC**)
- ACM Transactions on Intelligent Systems and Technology (**ACM TIST**)
- Distributed and Parallel Databases (**Springer DAPD**)
- Elsevier Computer Communications (**Elsevier ComCom**)
- Elsevier Computer Networks (**Elsevier ComNet**)
- Elsevier Computers (**Elsevier Com**)
- Journal of Artificial Evolution and Applications (**JAEA**)
- International Journal of Communication Systems (**IJCS**)

Conference Referee (Selected)

- IEEE International Conference on Mobile Data Management (**IEEE MDM**)
- International Conf. on Web-Age Information Management (**Microsoft Research**)
- International Conference on Very Large DataBases (**VLDB**)
- IEEE/IFIP Embedded and Ubiquitous Computing (**IEEE/IFIP EUC**)
- IEEE International Conference on Communications (**IEEE ICC**)
- IEEE Global Communications Conference (**IEEE GlobeCom**)
- IEEE International Conf. on Ubiquitous Computing and Communications (**IEEE IUCC**)
- Artificial Intelligence, Applications and Innovations (**AIAI**)
- Euro-par International Conference on Parallel Computing
- IWCMC Wireless Ad Hoc and Sensor Networks
- International Conference on Communications and Mobile Computing (**CMC**).
- International Conference on Evolvable Systems (**ICES**)
- International Information and Knowledge Management Conference (**IKMC**)
- International Conference in Intelligent Computing (**ICIC**).
- Computer science and Electronic Engineering Conference.

XV. MEMBERSHIPS

Scientific Technical Chamber of Cyprus (ETEK), Member   **1997 to present**
- Registered Electronic Engineer (1997-present)
- Registered Computer Engineer (1997-present)

Institute of Electrical and Electronics Engineers, Inc. (IEEE), Member   **2006 to present**
- IEEE Communications Society (2006-present)
- IEEE Computational Intelligence Society (2006-present)
- IEEE Mobile Computing (2011-present)

XVI. PROFESSIONAL EXPERIENCE

Web-site Designer (Part-time)   **June 2005 to 2009**
- Salon International, Nicosia, Cyprus (www.saloninternational.com.cy)
- Eu-Map Consulting Co., London, UK (www.eumap-consulting.eu)
- Softteleia Co., Limassol, Cyprus (www.softteleia.com.cy)
-

Database Designer (Part-time)   **September 2009 to 2009**
- Cyprus Land Development Corporation, Nicosia, Cyprus (TEA project)

Computer International Institute, Larnaca, Cyprus   **June 2005 to September 2005**
- Tutor Java Object Oriented Programming

CYprus Telecommunication Authorities, CYTA, Cyprus   **June 2004 to September 2004**
- Technician engineer, Part-timer

Xerographic Systems LTD, Nicosia, Cyprus   **August 2000 to September 2000**
- Technician trainee

Medisell CO LTD, Nicosia, Cyprus   **July 2000 to August 2000**

* Technician trainee

SITA, Nicosia, Cyprus   **June 2000 to July 2000**
* Technician trainee

DEI, Athens, Greece   **June 1999 to September 1999**
* Technician trainee

Golden Telecom, Nicosia, Cyprus   **June 1998 to September 1998**
* Technician trainee

XVII.   CIVIL SERVICE

Cyprus National Guard   **2002-2004**
* Nominated as officer (ranked 6th out of 2500 on IQ and training tests).
* Awarded the position of army cadet, Tank Military School, Avlona, Greece, 2000.
* Awarded the position of second-lieutenant, Tank Brigade, Nicosia, Cyprus, 2002.

XVIII.   TECHNICAL SKILLS

Extensive hardware and software experience in networking and information technology.
* **Smartphones App Development/OS/Tools:** Android, Windows Phone, Windows 8, Silverlight, XNA, Expression Blend
* **Matlab experience:** linear algebra, nonlinear numerical methods, polynomials, statistics, visualization.
* **Matlab toolboxes:** communications, genetic algorithm and direct search.
* **Programming:** Java, C, C#, C++, Basic, Pascal, Fortran, Visual .Net and others.
* **Applications:** TEX, LATEX, BibTEX, Macromedia Flash MX, Microsoft Office and other common productivity packages for Windows and Linux platforms.
* **Web Technologies:** HTML, HTML5, XML, JSON, Javascript, MVC, Ajax, etc.
* **Databases, middlewares and APIs:** SQL, MySQL, MS Access, Corba, RMI, JDBC, ODBC.
* **Operating Systems:** Android, Windows 8/7/Vista/XP/2000/98/95, Linux and other UNIX variants.

XIX. CONTACT INFORMATION

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Department: Department of Computer Science and Engineering

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Voice:	+357-22-431355
E-mail:	com.ca@frederick.ac.cy
WWW:	http://staff.frederick.ac.cy//com.ca/

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Department:	Department of Computer Science
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