

Andreas Pitsillides



Curriculum Vitae (CV)

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ResearchGate: https://www.researchgate.net/profile/Andreas_Pitsillides

Ranking of Top Scientists in the field of Computer Science and
Electronics: <https://research.com/u/andreas-pitsillides-1>

<https://research.com/scientists-rankings/computer-science/cy>

DBLP Computer science bibliography:

<https://dblp.dagstuhl.de/search?q=andreas+pitsillides>



Andreas Pitsillides Curriculum Vitae (CV)

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One paragraph bio

Andreas Pitsillides is a Professor in the Department of Computer Science, University of Cyprus, co-director of the Networks Research Laboratory (NetRL, <http://www.NetRL.cs.ucy.ac.cy>), appointed Visiting Professor, University of Johannesburg, Department of Electrical and Electronic Engineering Science, Johannesburg, South Africa (2021-2024) and Scientific Advisor of Cognitive UX LTD. He was appointed Visiting Professor at the University of the Witwatersrand (Wits), School of Electrical and Information engineering, Johannesburg, South Africa (2017-2020), University of Johannesburg, Department of Electrical and Electronic Engineering Science, Johannesburg, South Africa (2014-2017). His broad research interests include communication networks, Software Defined Metasurfaces (HyperSurfaces, Reconfigurable Intelligent Surfaces) and their application in Programmable Wireless Environments, Nanonetworks and the Internet of Things and Web of Things, Smart Systems (e.g. Smart Grid), Smart Spaces (e.g. Home, City), and e-health. He has a particular interest in adapting tools from various fields of applied mathematics such as adaptive non-linear control theory, computational intelligence, game theory, and complex systems and nature inspired techniques, to solve problems in communication networks. Published over 340 refereed papers in flagship journals (e.g. IEEE, Elsevier, IFAC, Springer), international conferences, and book chapters, co-authored 2 books (1 edited), participated as principal or co-principal investigator in over 40 European Commission and locally funded research projects with over 6.7 million Euro, and participated as general and TPC chair in many conferences. He has received several awards, including best paper, presented keynotes, invited lectures at major research organisations, short courses at international conferences and short courses to industry.

BRIEF BIO

Undergraduate studies at the University of Manchester Institute of Science and Technology (UMIST, Electrical and Electronic Engineering, 1980), and graduate studies at Swinburne University of Technology, Melbourne (PhD in High Speed Multimedia Networks, 1993). Currently, he is a Professor with the Department of Computer Science, University of Cyprus (Associate Professor 1997-2007, Assistant Professor 1995-1997), Founder and Head of the Networks Research Laboratory (NetRL), and Co-founder and Chairman & Scientific Director, of the Cyprus Academic and Research Network (CYNET) since its establishment by the Cyprus Council of Ministers from 2000 until 2016. He also was the Department of Computer Science Chair from 2014-2016.

Andreas is also appointed Visiting Professor, University of Johannesburg, Department of Electrical and Electronic Engineering Science, Johannesburg, South Africa (2021-2024) and Scientific Advisor of Cognitive UX LTD. He was appointed Visiting Professor at the University of the Witwatersrand (Wits), School of Electrical and Information engineering, Johannesburg, South Africa (2017-2020), University of Johannesburg, Department of Electrical and Electronic Engineering Science, Johannesburg, South Africa

(2014-2017). His broad research interests include communication networks, Software Defined Metasurfaces (HyperSurfaces, Reconfigurable Intelligent Surfaces) and their application in Programmable Wireless Environments, Nanonetworks and the Internet of Things (IoTs) and Web of Things, Smart Systems (e.g. Smart Grid), Smart Spaces (e.g. Home, City), and e-health. Andreas has worked in industry for six years (Siemens 1980-1983, Asea-Brown Boveri, 1983-1986), and from 1987 till 1994 had been with the Swinburne University of Technology (Lecturer, Senior Lecturer 1990-1994, and Foundation Associate Director of the Swinburne Laboratory for Telecommunications Research, 1992-1994). In 1992 he spent a six month period as an academic visitor at the Telstra (Australia) Telecom Research Labs (TRL) and in 2008 he spent 5 months in South Africa with the University of Cape Town and the University of Pretoria as a visiting professor, and shorter periods with the University of Southern California and the Goldsmiths, University of London.

Andreas's broad research interests include fixed and mobile/wireless communication networks (ad-hock and sensor networks, VANETS, WLANs&WMANs, UMTS Third Generation mobile networks and beyond, LTE and enhanced LTE, 4G, 5G/6G and beyond), flow and congestion control, resource allocation and radio resource management. Also his research interests span Nanonetworks and Software Defined Metasurfaces and Metamaterials (HyperSurfaces, Reconfigurable Intelligent Surfaces,) and its application in Programmable Wireless Environments, the Internet of Things and Web of Things, Smart Systems (e.g. Smart Grid) and Smart Spaces (e.g. Home, City), and Internet technologies and their application in Mobile e-Services, e.g. in Tele-Healthcare and security issues. He has a particular interest in adapting tools from various fields of applied mathematics such as adaptive non-linear control theory, computational intelligence, game theory, and recently complex systems and nature inspired techniques, to solve problems in communication networks. Andreas has published well over 330 referred papers in flagship journals (e.g. IEEE, Elsevier, IFAC, Springer), international conferences and book chapters, he is the co-author with Josephine Antoniou of the book *Game Theory in Communication Networks: Cooperative Resolution of Interactive Networking Scenarios* (CRC, ISBN: 978-1439848081, 2012), he is the co-editor with Petros Ioannou of the book on *Modelling and Control of Complex Systems* (CRC Press, ISBN: 978-0-8493-7985-0, 2007), received several awards, including best paper, presented invited keynotes, invited lectures at major research organisations and universities, has given short courses at international conferences and short courses to industry, and has received a number of awards.

Andreas participated in over 40 European Commission and locally funded research projects with over 6.6 million Euro as principal or co-principal investigator. Current research projects he is/was involved with include European Commission funded (e.g. Phero-MolCom: Yeast Pheromone Testbed for Molecular Communications, TRUSTID: Intelligent and Continuous Online Student Identity Management for Improving Security and Trust in European Higher Education Institutions, H2020 SERUMS: Securing Medical Data in Smart Patient-Centric Healthcare Systems., FET H2020 VisorSurrf: - A Hardware Platform for Software-driven Functional Metasurfaces, REACH - Rural broadband intErnet Access using Cooperative mesh networking in wHite space spectrum-EU-India Research and Innovation Partnership, SEOP: Social Electricity On-line Platform, AGILE: Rapidly-deployable, Self-tuning, Self-reconfigurable, Nearly-optimal

Control Design for Large-Scale Nonlinear Systems, GINSEG: Performance Control in Wireless Sensor Networks, C-CAST: Context casting, C-MOBILE: Advanced MBMS For The Future Mobile World, MOTIVE: MOBILE Terminal Information Value addEd Functionality, B-BONE Broadcasting And Multicasting Over Enhanced UMTS Mobile Broadband Networks, E-NEXT Network of Excellence in Emerging Network Technologies, SEACORN: Simulation of Enhanced UMTS Access and Core Networks, M-POWER: Middleware platform for eMPOWERing cognitive disabled and elderly, GN2 and GEANT: The Next Generation of European Research Networking), National Research Board funded (e.g. DiversePass: Diverse Passwords based on Human Cognitive Differences, HSADAPT: : Real-time Control of the Wireless Behavior of Environments with HyperSurfaces, MIN2C: Mimicking Nature for Designing Robust Congestion Control Mechanisms in Self-Organized Autonomous Decentralized Networks, EM-VANET: Emergency message dissemination for safety applications in vehicular ad-hoc networks, TRAFICNET: Intelligent control of transportation system, ASPIDA: Security in Sensor Networks, VIDEO: Adaptive video distribution over wireless networks, TRUFBUS: Modeling and Analysis of Traffic and Impact of Dedicated Bus Lanes on Strovolos Avenue, DITIS I and II: Collaborative Virtual Medical team for home healthcare of cancer patients) and Cambridge Microsoft Research Labs (DITIS: Networked Collaboration supporting Home Healthcare Teams), and University project grants (e.g. DIRECTOR: Dynamically Reconfigurable mHealth Video Communications for Real-time Adaptation to Time-Varying Constraints and ADAVIDEO: Adaptive video streaming over wireless networks).

Andreas serves on the Editorial Board of ITU Journal on Future and Evolving Technologies (ITU J-FET) (since 2020), served on the Editorial Boards of Computer Networks (COMNET) Journal (Area Editor) and the International Journal of Handheld Computing Research (IJHCR) (Review Board). He also serves/served as international advisory committee member (WiSPNET 2022: International Conference on Wireless Communications, Signal Processing and Networking), General Chair (APPS 2021 and 2019: Adaptive and Personalized Privacy and Security, ISSPIT 2016: 16th IEEE International Symposium on Signal Processing and Information Technology, ComComAp 2015: Communications and IT Applications Conference, ISCC2015: The Twentieth IEEE Symposium on Computers and Communications, Med-Hoc-Net 2012, the International Conference on Telecommunications, ICT2011, and for EuroMedNet'98: 'The role of the Internet, Intranet and the World Wide Web in the development of the Euro-Mediterranean Information Society'), Workshop Chair (ICMEM 2022: 6th International Conference on Material Engineering and Manufacturing), Vice General Chair (Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks, WiOpt 2007), and Technical Program Chair (TPC) (GameNets 2021: 10th EAI International Conference on Game Theory for Networks, Smart Communications Systems, 2019, IEEE International Symposium on Networks, Computers and Communications (ISNCC 2019, ISNCC 2018), 4th ACM International Conference on Nanoscale Computing and Communication ACM NanoCom 2017, the International Conference on Intelligent Systems and Computing: Theory And Applications in 2006, and the Workshop on Modelling and Control of Complex Systems in 2005, as International Co- Chair for INFOCOM 2003, co-chairman of the 2nd Workshop on Applications of Computational Intelligence Techniques in

Telecommunications in 2000) and organized and chaired the successful hot-topic panel discussion on congestion control issues in INFOCOM 1996 (over 300 attendees). He regularly serves on international conference executive committees, including INFOCOM 2001, 2002 and 2003, and the International Conference on Telecommunications (ICT'97), Regular Technical Program Committee member of numerous conferences and workshops (including INFOCOM, IFIP NETWORKING, ISCC, ICT, Med-Hoc-Net, PIMRC, Globecom, etc...), has chaired a large number of conference sessions, and serves as a regular reviewer for journal and conference submissions. He is also a member of the International Federation of Automatic Control (IFAC) Technical Committee TC 1.5 on Networked Systems and Technical Committee TC 7.3 on Transportation Systems (until 2014), and of the International Federation of Information Processing (IFIP) working group WG 6.3: Performance of Communications Systems. WG6.3. is part of the TC6, the Technical Committee on 'Communications Systems', Senior Member of the IEEE, and the GEANT NREN PC committee (GEANT 3 total funding of 193 MEuro, EU funding of 93 MEuro).

Andreas also served on a number of professional committees, including the Ministerial Committee advising the Cyprus Minister of Communications and Works on Telecommunications issues (chair), the Euro-Mediterranean Information Society Action Plan Steering Committee advising the European Commission, the ad-hoc Cyprus Information Society Action Plan Steering Committee advising the Government of Cyprus, and the Mediterranean Information Society Forum. He is also widely consulted by private industry and government, as for example by the Government of Cyprus on the 400 bed Hospital Information System for the New Nicosia General Hospital and the New Famagusta General Hospital (total responsibility for the network and security system design), by the Neapolis University for their IT and networking infrastructure and services, by the University of Cyprus on IP-Telephony, by Schlumberger-Sema on security issues for the government of Cyprus Formulation of a National Strategy and Legal framework for an Electronic Commerce Study, and was the technical consultant of the Government of Cyprus (DITS, Department of Information Technologies Services) on the Government Internet, Intranet, and Extranet Services Network (GIS), designed with high security and high availability, and on the Government Information Network (GDN) (a Wide Area ATM based Virtual Private Network providing national coverage to the government of Cyprus). He had also been consulted by the Cyprus Development Bank for the development of the Cyprus IT strategy, and by the Cyprus Telecommunications Authority (CYTA) on ATM traffic modelling, performance evaluation, and control issues for the Cyprus national ATM based network.

RESEARCH INTERESTS

Design and Performance Aspects of Networks (fixed, mobile, wireless, ad-hoc and sensor, Vehicle Ad-hoc Networks, Internet TCP/IP, UMTS 3rd Generation and beyond, LTE and Advanced LTE, 5G, 6G, Next generation WLANs), including:

- Control theoretic techniques (non-linear, adaptive control, fuzzy control), game theory, complex systems and nature inspired techniques, and their application to solve network problems
- Internet of Things and Web of Things

- Nanonetworks (e-m based and molecular)
- Software Defined Metasurfaces (HyperSurfaces, Reconfigurable Intelligent Surfaces) and their application in Programmable Wirelss Environments,
- Smart Grid, Smart Home, Smart Spaces
- Congestion control, flow control, Dissemination of information, Resource Allocation and Radio Resource Management (RRM) techniques
- Internet technologies and their application in Mobile e-Services, emphasis in e-Healthcare and security issues.

EDUCATION

- UNIVERSITY OF MANCHESTER INSTITUTE OF SCIENCE AND TECHNOLOGY (UMIST)
B.Sc. in Electrical and Electronic Engineering, 1980
- SWINBURNE UNIVERSITY OF TECHNOLOGY, Melbourne PhD in High Speed Multimedia Networks, 1993

PROFESSIONAL EXPERIENCE

2007 - today	Professor with the Department of Computer Science, University of Cyprus
2021 – 2024	Appointed Visiting Professor, University of Johannesburg, Department of Electrical and Electronic Engineering Science, South Africa
2018 – 2020	Appointed Visiting Professor, University of the Witwatersrand (Wits), Department of Electrical and Information Engineering, Johannesburg, South Africa
2014 – 2017	Appointed Visiting Professor, University of Johannesburg, Department of Electrical and Electronic Engineering Science, South Africa
2014-2016	Department Chair, Department of Computer Science, University of Cyprus
2010 - 2012	Department Vice-Chair, Department of Computer Science, University of Cyprus
2000 – 2016	Co-founder, Chairman and Scientific Director of the Cyprus Research and Academic Network (CYNET)
2002 – today	Founder and Director, Networks Research Laboratory (NetRL)
2008	Visiting Professor, University of Cape Town and University of Pretoria, South Africa (four months)
1997 - 2007	Associate Professor with the Department of Computer Science, University of Cyprus
1994-97	Assistant Professor with the Department of Computer Science, University of Cyprus
1992-94	Foundation Associate Director of the Swinburne Laboratory for Telecommunications Research, Melbourne, Australia

1990-94	Senior Lecturer, Swinburne University of Technology, Melbourne, Australia
1992	Visiting Researcher, Telstra Telecom Research Labs (TRL). Australia (six months)
1987-90	Lecturer, Swinburne University of Technology, Melbourne, Australia
1983-87	Senior Systems Engineer, Asea-Brown Boveri (ABB)
1980-83	Systems Engineer, Siemens

PROFESSIONAL ACTIVITIES

- Member of the Editorial Board of ITU Journal on Future and Evolving Technologies (ITU J-FET) (since August 2020).
- Member of the Editorial Board of Computer Networks (COMNET) Journal (Area Editor) (Sept 2005-June 2018).
- Member of the Editorial Review Board of the International Journal of Handheld Computing Research (IJHCR) (until 2018)
- Member of the International Federation of Automatic Control (IFAC) Technical Committee (TC1.5) on Networked Systems (March 2007-October 2017).
- Member of the International Federation of Automatic Control (IFAC) Technical Committee (TC7.4) on Transportation Systems (October 2005 - October 2014).
- Member of International Federation of Information Processing (IFIP) Working Group WG 6.3 (Working group 6.3): Performance of Communications Systems. WG6.3. is part of the TC6, the Technical Committee on 'Communications Systems (Jan 2004-).
- Member of EU project SocialSensor (<http://www.socialsensor.eu/>) expert User Group (SUG). Its objective is to surface real-time trends and insights from multiple social networks. (2013-2014)
- Founder and Director, Networks Research Laboratory (NetRL), Dept. of Computer Science, University of Cyprus (<http://www.NetRL.ucy.ac.cy>). NetRL was established in 2002.
- Chairman and Scientific Director of the Research and Academic Network (CYNET) for which he was instrumental in its creation. CYNET was established by the Council of Ministers in 2000 as an independent entity. The founding partners are the University of Cyprus, The Research Promotion Foundation and the Planning Bureau. Its main objective is to offer advanced networking infrastructure and services at a level appropriate for academic and research establishments, and to carry out research in these areas. <http://www.cynet.ac.cy> (January 2000-August 2017)
- Member of Center for Intelligent Systems and Networks (KIOS) (<http://www.kios.org.cy/index.html>)
- Member of the IEEE Technical Committee on Computer Communications (TCCC). (October 2003-).
- Member of the European National Research and Education Networks (NREN) Policy Committee, currently overseeing GEANT 2 project (project total value of 80 MEuro funded by the EC for GEANT 2 and 93 MEuro for GEANT 3 (total funding of 193 MEuro).

- Elected IEEE, Institute of the Electrical and Electronic Engineers, Member (1990) Senior Member since 2005.

Andreas also served as:

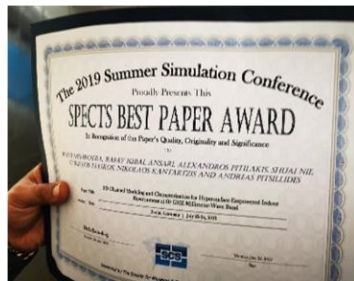
- Member of the special committee appointed by the Research Promotion Foundation of Cyprus advising on the Research Project Assessment Guidelines (2007)
- Chair of the Ministerial Committee advising the Minister of Communications and Works on Telecommunications issues (2002-2003).
- Member of Euro-Mediterranean IS Action Plan Steering Committee advising the EC on Information Society issues (1996-2000). (The committee is also known as the Aldana initiative. It has directly lead to the creation and securing of the EUMEDIS program worth 45MEuro for Euro-Mediterranean IS actions, launched in 2000).
- Member of the Mediterranean Information Society Forum (1997-2000).
- Member of Cyprus Information Society Action Plan Committee advising the government of Cyprus on Information Society issues (1995-2000).

HONOURS, AWARDS & SCHOLARSHIPS

- **IEEE Internet of Things Initiative WF-IoTs April 2019 Most Patents: SPECIAL AWARD** for paper with most patent citations, “Exploring the use of DNS as a search engine for the Web of Things” by Andreas Kamilaris, Koula Papakonstantinou, Andreas Pitsillides, published in the proceeding of the 2014 IEEE World Forum on Internet of Things (WF-IoT), Seoul, South Korea, March 2014 (as of october 2019 over 75 patent citations in Google Scholar). Announced at 5th IEEE World Forum on Internet of Things (WF-IoT), 15-18 April 2019, Limerick, Ireland. <https://wfiot2019.iot.ieee.org/>



- **Best Paper Award SPECTS 2019** : Rashi Mehrotra, Rafay Iqbal Ansari, Alexandros Pitolakis, Shuai Nie, Christos Liaskos, Nikolaos Kantartzis and Andreas Pitsillides, 3D Channel Modeling and Characterization for Hypersurface Empowered Indoor Environment at 60 GHz Millimeter-Wave Band, SummerSim 2019, 22 nd International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS), Berlin, Germany, July 22-24, 2019.



- **Best Paper Award, ICT 2016:** A. Tsioliaridou, C. Liaskos, L. Pachis, S. Ioannidis, A. Pitsillides, N3: Addressing and Routing in 3D Nanonetworks, 23rd International Conference on Telecommunications (ICT 2016), May 16-18, 2016, Thessaloniki, Greece.



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- 2nd ITU Green ICT Application Challenge, **First Prize**, “SocialElectricity”, (Andreas Kamilaris, PhD candidate, Advisor: Andreas Pitsillides). Presented on the 19th September 2012, during the Award Ceremony of the 2nd ITU Green Standards Week, jointly organized by International Telecommunications Union (ITU) and Telefonica.



- **ENERGY 2011 Best paper Award:** A. Kamilaris, A. Pitsillides, ‘Exploiting Demand Response in Web-based Energy-aware Smart Homes’, The First International Conference on Smart Grids, Green Communications and IT Energy-aware Technologies, ENERGY 2011, May 22-27, 2011 - Venice/Mestre, Italy.



- **EU ministerial eHealth Award 2003:** The system DITIS (Networked Home HealthCare Collaboration) was ranked among the best 20 e-Health projects in the European Union (out of 179 EU projects) and has been presented at the e-Health Ministerial conference 2003.



- **World Summit Award (WSA):** DITIS was ranked seventh among over eighty products at the World Summit Award (WSA) Competition, October 2003.
- **Staff Development Scholarship:** awarded by the Government of Australia, Department of Employment, Education and Training, (\$48,000) from January 1992 through to December 1992 for full time research in Multiservice and Multimedia Information Networking Systems.

It is worth mentioning that the visionary Journal paper introduced the use of metamaterials in wireless communications:

C. Liaskos, S. Nie, A. Tsioliaridou, A. Pitsillides, S. Ioannidis, I. Akyildiz, A New Wireless Communication Paradigm through Software-controlled Metasurfaces, IEEE Communications Magazine, Digital Object Identifier: 10.1109/MCOM.2018.1700659, 56(9), pp. 162-169, September 2018

is listed as the 2nd most representative/cited paper of IEEE COMMAG in the 2018-2021 span, as returned by Google Scholar queries:

https://scholar.google.com/scholar?q=source%3AIEEE+source%3ACommunications+source%3AMagazine&hl=en&as_sdt=0%2C5&as_ylo=2018&as_yhi=

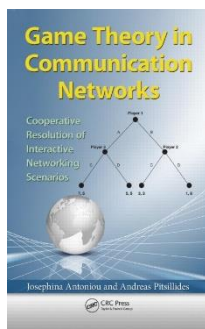
- Interestingly, the 1st and most cited paper was based on it, while the 4th also discusses the use cases of metamaterials in communications.

Query performed on 20th February 2021.

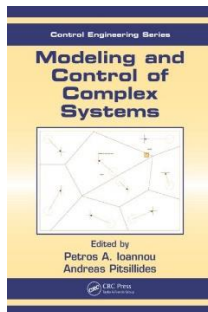
PUBLICATIONS

Books

- B.1. J. Antoniou, A. Pitsillides, *Game Theory in Communication Networks: Cooperative Resolution of Interactive Networking Scenarios*, 152 pages, Publisher: CRC Press, Taylor & Francis Group (paperback ISBN 9781138199385, Published November 16, 2016, Hardcover ISBN-10: 1439848084, ISBN-13: 978-1439848081, published August 2012).
<https://www.routledge.com/Game-Theory-in-Communication-Networks-Cooperative-Resolution-of-Interactive/Antoniou-Pitsillides/p/book/9781138199385>.



- B.2. *Modelling and Control of Complex Systems* (Edited by Petros Ioannou and Andreas Pitsillides), CRC Press in the Control Engineering Series edited by Frank Lewis, ISBN: 978-0-8493-7985-0, pp. 544, December 2007.



Editorials

- E.1. Christos Liaskos, Andreas Pitsillides, Marios Lestas, TC Cui, Evangelos Papapetrou, Stefan Schmid, Dimitrios Sounas, Special issue on Intelligent surfaces and their applications towards wide-scale deployment, \square ITU Journal on Future and Evolving Technologies (ITU J-FET), Oct. 2021 call.
- E.2. Emil Björnson, Ian F. Akyildiz, Linglong Dai, Andreas Pitsillides, Qingqing Wu (Guest Editors), IEEE Open Journal of Communications Society (OJ-COMS) invites manuscript submissions in the area of reconfigurable intelligent surface-based communications for the 6th generation (6G) wireless networks, Sept 2020 call
- E.3. Niovi Pavlidou, Andreas Pitsillides, Henning Schulzrinne, Dorgham Sisalem (Guest Editors), Special Issue on: Research and Trials for reliable VoIP Applications, Computer Networks, 52 (13), p.2447-2449, Sep 2008.

- E.4. C. Douligeris, A. Pitsillides, D. Panno (Guest Editors), Computational Intelligence in Telecommunications Networks, Guest Editorial in Special Issue on "Computational Intelligence in Telecommunications Networks" in Computer Communications Journal, Vol. 25, Issue 16, pp.1413-1414, October 2002.
- E.5. A. Pitsillides (Editor), Network Control Section, in Book COST 257 Report: Impacts of new services on the architecture and performance of broadband networks, (Editors P. Tran-Gia, N. Vicari, 165 pages), paper form pp. 13-40, extended version CD-ROM pp. 14-96. (CD form http://www3.informatik.uni-wuerzburg.de/cost/FinalReport/report_web.pdf), July 2000.
- E.6. G. Papadopoulos, A. Pitsillides (editors), Proceedings of EuroMedNet'98 conference 'The role of the Internet, Intranet and the World Wide Web in the development of the Euro-Mediterranean Information Society', March 1998.

Keynote speaker / Panels / Other

- KS.1. Keynote Talk 2021: "Supporting next generation wireless networking through Programmable Wireless Environments", International Conference on Wireless Communications Signal Processing and Networking (Wispnet 21), Chennai, India, 25 - 27 March 2021(<http://wispnet2021.org/index.html#speaker>)
- KS.2. Keynote Talk 2021: "Supporting THz and 6G through Programmable Wireless Environments implemented via software-controlled intelligent metasurfaces", International workshop on Emerging Research Areas in Wireless Communications, Department of Electronics and Communication Engineering, Sri Sivasubramaniya Nadar (SSN) College of Engineering, Chennai, Tamilnadu, India, September 18-19, 2020.
- KS.3. Plenary talk 2019: "A New Wireless Communication Paradigm through Software-Controlled Metasurfaces", 2019 Symposium on Performance Evaluation of Computers and Telecommunication Systems (SPECTS 2019) - Part of SummerSim 2019 - TU Berlin, July 2019. (<http://atc.udg.edu/SPECTS2019/>)
- KS.4. Keynote speech 2016: "Nature inspired techniques in addressing communication problems", 8th IFIP International Conference on New Technologies, Mobility and Security, NTMS'2016, Larnaca, Cyprus, 21 - 23 November 2016.
- KS.5. Keynote speech 2016: "Nature inspired techniques in addressing communication problems", MAP-tele doctoral program, Porto, Portugal, 4 May 2016.
- KS.6. Keynote speech 2015: 'Nature Inspired Techniques for addressing 5G technologies', July 2015, 2nd IEEE International Workshop on A 5G Wireless Odyssey: 2020, co-located with ISCC2015 (<http://www.ieee-iscc.org/2015>), Larnaca, Cyprus, 6 July 2015. (<http://5g.av.it.pt/>)
- KS.7. Keynote speech 2015: 'Internet of things: vision, research challenges, and recent commercial hype', Workshop on Internet of Things (IoT) and Wireless Sensor Networks (WSN), A collaborative Workshop between the Centre for Telecommunications (CfT) of the University of Johannesburg and Meraka Institute of the Council for Scientific and Industrial Research (CSIR), CSIR Merka Institute, Building 43, CSIR – Meiring Naude Rd, Brummeria, Pretoria, March 5, 2015.
- KS.8. Keynote speech 2014: "Nature inspired techniques in addressing communication problems", 13th IEEE International Symposium on Signal Processing and Information Technology (ISSPIT 2014), Dec 15-17 December, Noida, Delhi, India.
- KS.9. Keynote speech 2014: "The Web of Things: towards smart pervasive environments", 2nd International Workshop on Smart City and Ubiquitous Computing Applications (SCUCA 2014), in conjunction with the 10th IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (IEEE WiMob 2014), October 8, 2014, Larnaca, Cyprus. <http://netlab.frederick.ac.cy/scuca2014/keynote.html>
- KS.10. Keynote speech 2013: "The Web of Things: towards smart pervasive environments", September 5, 2013. Mini-Symposium – The Internet of Things, Machine to Machine Communication and

- Smart Citis, organized by Neco Ventura, University of Cape Town, South Africa (http://daad-unifi.org/wp-content/uploads/2012/03/Mini-Symposium-2013-IOT-M2M-Smart_Cities5.pdf).
- KS.11. Keynote speech 2011: “The Web of Things: Present state and future challenges”, PDP 2011 - The 19th Euromicro International Conference on Parallel, Distributed and Network-Based Computing <http://www.pdp2011.org/keynotes>, Ayia Napa, Cyprus, 9-11 February 2011.
- KS.12. Keynote speech 2009: DITIS: Virtual Collaborative Healthcare Teams for Home Healthcare, EFPC conference “Primary Care: Interdisciplinary and Community Oriented” Nicosia 7 & 8 May 2009.
- PA.1. Invited Plenary Panelist 2009 on "Cooperating in ICT and e-Infrastructures in the Mediterranean" 4th Mediterranean Conference on Information Systems (MCIS 2009) with Conference Theme: "Information Society Research, Education, Policy and Practice in the Mediterranean Region", Athens, 25-27 September 2009.
- PA.2. INFOCOM 1996 Panel discussion: “Can high-speed wide-area networks be effectively controlled?” (attended by over 300 participants). Organiser and Chair.
- O.1. Award of an honorary doctorate to Andrew j. Viterbi. Speech on the ‘The work and persona of Professor Andrew Viterbi’, March 2010.

Patents

Patent: Andreas Pitsillides, Christos Liaskos, Angeliki Tsioliariidou, Sotirios Ioannides, Ian Fuat Akyildiz, A NEW WIRELESS COMMUNICATION PARADIGM: REALIZING PROGRAMMABLE WIRELESS ENVIRONMENTS THROUGH SOFTWARE-CONTROLLED METASURFACES. **US-Patent issued on 28 January 2020 under No. 10,547,116.** Application Publication No.US-2019-0044246-A 1, Publication Date: 02/07/2019, (30 July 2018, Patent Application in the USA 16/048,606, Provisional US-Patent Application No. 62/539,831, Aug 2017.) [patent application link](#)



Book chapters

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Technical Reports

- R.1. M. Lestas, P. Ioannou, A. Pitsillides, Global Asymptotic Stability of a Max-Min Congestion Control Scheme, Report USC 01-06-05, June 2005
- R.2. Marios Lestas, Petros Ioannou, Andreas Pitsillides, Adaptive Congestion Protocol: A New Congestion Control Protocol with Learning Capability, Report TR-06-3, Dept. of Computer Science, University of Cyprus, February 2006.
- R.3. P. Antoniou and A. Pitsillides, "Understanding Complex Systems: A Communication Networks Perspective," Technical Report TR-07-01, Department of Computer Science, University of Cyprus, February, 2007.

PhD Thesis

Andreas Pitsillides, Control Structures and Techniques in Broadband-ISDN Communication Systems, PhD Thesis, Submitted June 1993. <http://adt.lib.swin.edu.au/public/adt-VSWT20060321.132650/index.html>

TUTORIALS, INVITED LECTURES, AND SEMINARS

Tutorials presented at international conferences

- i) "Adaptive Digital Signal Processing", Swinburne University of Technology. Short Course delivered on 12 June 1992. (45 Participants)
- ii) "Multimedia and multiservice high speed networks", ICT'95, International Conference of Telecommunications, Bali, Indonesia, March 1995 (full day, 24 participants).
- iii) "ATM Switching System Management and Multimedia Networking", ICT'96, International Conference of Telecommunications, Istanbul, Turkey, 14 April 1996 (jointly with Dr. Mehmet Toy, AT&T Bell Labs) (full day, 40 participants).
- iv) "ATM based multiservice and multimedia information networking" ISCC'97, IEEE Symposium on Computers and Communications, Alexandria, Egypt, 30 June 1997 (half day course, 25 participants).

Invited tutorials

- i) Cyprus Summer School on Intelligent Systems, Talk on Fuzzy Congestion Control in Communication Networks, Andreas Pitsillides, Chrisostomos Chrisostomou, Vassos Vassiliou, University of Cyprus, July 2-6, 2007 (2 hours).
- ii) Athens University of Economics and Business (AUEB), Wireless/Mobile Networking Technologies, in the framework of the Mobinet Network of Excellence (16 hours), Athens, November 2003 (30 Participants)
- iii) Aristotle University of Thessaloniki, Wireless/Mobile Networking Technologies, in the framework of the Mobinet Network of Excellence (16 hours), Thessaloniki, November 2003 (20 participants).

Invited talks/lectures at international research and academic organizations

1. Telecom Australia Research Laboratories, Melbourne, Australia (invited by Dr. John Burgin). "Dynamic Virtual Path Bandwidth Allocation in BISDN" A seminar delivered on 11 December 1991
2. Telecom Australia Research Laboratories, Melbourne, Australia (invited by Dr. Bob Warfield), "Hierarchical (Multilevel/Multilayer) control approach in BISDN networks". A seminar delivered in August 1992
3. Telecom Australia Research Laboratories, Melbourne, Australia (invited by Dr. Bob Warfield): "Integrated Adaptive Connection Admission and Flow Control: Controlled Quality of Service yet High Utilisation" A seminar delivered in March 1993
4. AT&T Bell Laboratories (1994), Middletown, NJ, USA. (invited by Dr. Kazem Sohraby): a) "A Multilevel optimal control approach to dynamic bandwidth allocation in Broadband-ISDN", b) "Towards a control framework for BISDN communication networks". A series of two seminars delivered in June 1994
5. Bellcore Labs (1994), Red Bank, New Jersey, USA. (invited by Dr. Gopal Meempat): a) "Adaptive Connection Admission and Flow Control: Quality of Service with High Utilisation", b) "A Multilevel optimal control approach to dynamic bandwidth allocation in Broadband-ISDN". A series of two seminars delivered in June 1994
6. NEC Research Laboratories (1994), Princeton, New Jersey, USA. (invited by Dr. Baskar Sengupta): a) "Adaptive Connection Admission and Flow Control: Quality of Service with High Utilisation", b) "A Multilevel optimal control approach to dynamic bandwidth allocation in Broadband-ISDN", c) "Towards a control framework for BISDN communication networks". A series of three seminars delivered in June 1994
7. IBM TJ Watson Research Centre (1994), Yorktown Heights, NY, USA. (Invited by Dr. Roch Guerin): a) "Adaptive Connection Admission and Flow Control: Quality of Service with High Utilisation", b) "A Multilevel optimal control approach to dynamic bandwidth allocation in Broadband-ISDN". A series of two seminars delivered in June 1994
8. Clemson University (1994), South Carolina, USA. (invited by Prof. David Tipper): a) "Adaptive Connection Admission and Flow Control: Quality of Service with High Utilisation", b) "A Multilevel optimal control approach to dynamic bandwidth allocation in Broadband-ISDN", c) "Towards a control framework for BISDN communication networks". A series of three seminars delivered in June 1994
9. IEEE Cyprus Section, Nicosia, Cyprus, "Integrated Services Digital Networks: Narrowband and Broadband", (together with Mr Paris Menelaou, CYTA), delivered in October 1996.
10. Department of Computer Science lecture series, Nicosia, Cyprus, "High Speed Networks in the Information Society", delivered in November 1996.
11. University of Crete, Telecom and Networks Group (1996) FORTH-Hellas, Telecom & Networks Group, Crete, Greece (Invited by Prof C. Courcoubetis) "Review of own current research activities on ATM networks", delivered in November 1996.
12. University of Southern California (2001) (Invited by Prof. Petros Ioannou) Adaptive Nonlinear Congestion Control, Delivered in April 2001
13. University of Cyprus (2004) (Invited by Prof M. Polycarpou) Congestion control in IP networks using control theory based approaches, delivered in April 2004
14. Cambridge University (2004) (Invited by Prof Jon Crawcroft) Enhanced UMTS Radio Resource Management issues and simulative evaluation, delivered in May 2004
15. Cambridge Microsoft Research Labs (2004) (Invited by Dr. M. Gantzides and Dr. Pablo Rodriguez) a) Nonlinear Congestion Control b) Network For Medical Collaboration - DITIS II. A series of two seminars delivered in May 2004
16. University of Southern California (2005) (Invited by Prof Petros Ioannou) Congestion Control in Differentiated Services Networks Using Fuzzy Logic" delivered in October 2005
17. Monash University (2006), (Invited by Senior Lecturer A. Sekercioglu) Congestion Control in Differentiated Services Networks Using Fuzzy Logic, delivered in January 2006

18. Sydney University (2006), (Invited by Prof A. Zomaya) Congestion Control using control theoretic approaches, delivered in January 2006
19. University of Pretoria (2008), (Invited by Prof A. Engelbrecht) Nature inspired techniques in solving communication problems, delivered in February 2008.
20. University of Cape Town (2008), (Invited by Senior Lecturer Neco Ventura), Research challenges in 3G and beyond communication networks: ABC provisioning during service activation (RAN selection) in 4G and MBMS radio resource allocation, delivered in March 2008.
21. King's College London, UK, (2009) Centre of Telecommunication Research (CTR Invited by Prof. Hamid Aghvami), Research challenges in wireless broadband networks: Network Selection in 4G and MBMS radio resource allocation, delivered in June 2009.
22. Monash University (2010), (Invited by Senior Lecturer A. Sekercioglu) Nature inspired techniques for controlled performance in sensor networks, delivered in March 2010.
23. University of Sydney (2010), Australia, Basser Seminar Series, (Invited by Senior Lecturer Lavy Libman) Aspects of research in VANETS: Information dissemination and Next Generation Mobile Networks: Cooperative Interactions, delivered April 2010.
24. University of the Western Sydney (2010), Australia, (Invited by Senior Lecturer Seyed Shahrestani), Nature inspired bird flocking behaviour for congestion avoidance in Sensor Networks, delivered April 2010.
25. Imperial College (2011), London, UK, (Invited by Prof. Kin Leung), Aspects of research in Information dissemination and routing in VANETS, and Cooperative Interactions in Wireless Networks, delivered June 2011.
26. University of Pretoria (2012), Nature inspired techniques for avoiding congestion in wireless sensor networks, April 2012.
27. University of Johannesburg (2012), Nature inspired techniques for avoiding congestion in wireless sensor networks, April 2012.
28. University of Johannesburg (2012), Web of Things: enabling the physical world through the web April, 2012.
29. University of Central Lancashire (UCLan), Cyprus (2012), The Web of Things: Towards smart pervasive environments, December 2012.
30. University of Pretoria (2013), The Web of Things: Towards smart pervasive environments, February 2013
31. University of Johannesburg (2013), The Web of Things: Towards smart pervasive environments February 2013, February 2013
32. Wits University (University of Witwatersrand) (2013), Johannesburg, The Web of Things: Towards smart pervasive environments, February 2013
33. Council for Scientific and Industrial Research (CSIR) (2013), Pretoria, The Web of Things: Towards smart pervasive environments, February 2013
34. Kings College, University of London (2013), Communication enablers in emergency response networking: the HelpNet case, May 2013
35. University of Cape Town (UCT) (2013), Cape Town (Invited by Neco Ventura), The Web of Things: towards smart pervasive environments", September 2013.
36. University of Johannesburg (2013), Johannesburg (Invited by Suvendi Rimer), Opportunities and challenges of Wireless Communication in the Smart Grid, October 2013.
37. University of Johannesburg (2013), Johannesburg (Invited by Suvendi Rimer), Smart Grid and Smart Home Security, October 2013.
38. Imperial College (2013), London (Invited by Prof. Kin Leung), HelpNet, an ad-hoc Emergency Response Network, November 2013.
39. Larnaca, Cyprus, Applying Adaptive Nonlinear Congestion Control in Communication Networks, Control and Adaptation: A 30-Year Journey, 24 June 2013, (Invited talk).
40. Georgia Tech (2014), Atlanta, Georgia (Invited by Prof. Ian Akyildiz), Explore and Exploit in Wireless Adhoc Emergency Response Networks, April 2014 (presented at the International Workshop on Future of Wireless Communications).
41. University of Johannesburg (2015), South Africa, (Invited by Prof Khmaies Ouahada and Dr Suvendi Rimer), Smart Home Spectrum Management—Initial Considerations, 4

- December 2015 (presented at the UJ Colloquium on Spectrum Management and Optimisation Techniques).
42. University of Johannesburg (2017), South Africa, (organised by Prof Khmaies Ouahada,), Internet of Things (IoTs): Fundamentals, Technologies and Protocols, 3 April 2017 (presented at the Trends in Wireless Networking & Human Factors on Intelligent Systems organised by The Smart Communications Systems Research Group).
 43. University of Johannesburg (2017), South Africa, (organised by Prof Khmaies Ouahada,), Wireless Cellular Networks (4G and 5G), 3 April 2017 (presented at the Trends in Wireless Networking & Human Factors on Intelligent Systems organised by The Smart Communications Systems Research Group).
 44. University of Johannesburg (2017), South Africa, (organised by Prof Khmaies Ouahada,), Nanonetworks and the Internet of NanoThings (IoNTs), 6 April 2017 (presented at the Trends in Wireless Networking & Human Factors on Intelligent Systems organised by The Smart Communications Systems Research Group).
 45. Council for Science & Industrial Research (CSIR) (2017) Short seminar on Two topics in wireless networking: 5G and Internet of Nano-Things, (Organised by Prof Fisseha Mekuria, CSIR Meraka ICT Advanced Research, development & Innovation (RDI) Institute), 4 April 2017.
 46. University of the Witwatersrand (Wits), (organised by Ling Cheng), Johannesburg, South Africa, Adopting nature inspired techniques in solving communication problems, Lunch & Learn series of lectures 31st October 2017.
 47. University of Johannesburg, Johannesburg, South Africa, (organised by Prof Khmaies Ouahada), Nature Inspired Techniques applied to Communication Systems, Seminar on Nature Inspired Communications and Smart Water Management, 03rd November 2017.
 48. Universidade Federal de São João Del-Rei, Nature Inspired Techniques applied to Communication Systems, (organised by Prof Cristiano Silva), 21 February 2018, Brazil.
 49. University of the Witwatersrand (Wits), (organised by Ling Cheng), Johannesburg, South Africa, 5G Small Cells formation in Ultra Dense Networks supported by UE-based Virtual Base Stations, Colloquium on Telecommunications, 19th April 2018.
 50. University of the Witwatersrand (Wits), (organised by Ling Cheng), Johannesburg, South Africa, A New Wireless Communication Paradigm through Software-controlled Metasurfaces, Colloquium on Telecommunications, 19th April 2018.
 51. University of Witwatersrand, Electrical & Electronic Engineering Science (Invited by Profs. Ling Cheng and Vered Arahanson), Programmable Wireless Communications through Software-controlled Metasurfaces, 28 November 2019.
 52. University of Johannesburg, Electrical & Electronic Engineering Science (Invited by Prof. Khmaies Ouahada and Shastri Jayram), Programmable Wireless Communications through Software-controlled Metasurfaces, 3rd December 2019.
 53. Sri Sivasubramaniya Nadar College of Engineering, Electronics and Communication Engineering Department, Chennai, India, International Workshop on Emerging Research Areas in Wireless Communications (Invited by Prof. N. Prabaagarane) Supporting THz and 6G through Programmable Wireless Environments implemented via software-controlled intelligent metasurfaces, September 18-19, 2020. (presented remotely due to COVID)
 54. Northumbria University (Invited by Rafay Ansari), Newcastle, United Kingdom, A novel Distributed AI framework with ML for 5G/6G communication, 13 October 2021.
 55. Northumbria University (Invited by Rafay Ansari), Newcastle, United Kingdom, Programmable Wireless Environments realised via Reconfigurable Intelligent Surfaces, 13 October 2021.
 56. University of Johannesburg (Invited by Suvendi Rimer), On Personalized and Usable Privacy and Security: Case Studies of Two European-funded Research Projects, 17 March 2022.
 57. University of Johannesburg (Invited by Shastri Jayram), Motivating a Distributed AI framework for 5G/6G, 17 March 2022.
 58. University of Johannesburg (Invited by Shastri Jayram), Supporting next generation wireless networking through Programmable Wireless Environments, 17 March 2022.

Seminars to local industry and government agencies

Andreas has given numerous courses related to networks to industry and government, including the Cyprus Telecommunications Authority (CYTA); Department of Information Technology Services (DITS), Ministry of Finance; the Army; the MBA course of the Training Productivity Centre; the Land and Registries department, Ministry of Communications and Works.

RESEARCH PROJECTS FUNDING

For project descriptions, please see <http://www.NetRL.cs.ucy.ac.cy>. A summary description of selected projects appears in Appendix B.

Summary:

Total funding obtained as Principal Investigator (PI) or co PI in research projects through UCY exceeds	6.7 million Euro
Total funding obtained as Participant (P) in research projects through UCY exceeds	2.2 million Euro
TOTAL	8.9 million Euro
Total funding obtained through Strategic Infrastructure projects from RPF (participant)	5,56 million Euro
Total funding obtained through CYNET (mainly to support advanced networking infrastructure and networking services) exceeds	5.75 million Euro
Total funding obtained through Swinburne University of Technology exceeds	0.05 million Euro
TOTAL	11.41 million Euro

Detailed research funding:

A	Research funding at UCY:	Funding to UCY (Euro) as PI or co-PI	Funding to UCY (Euro) as participant
1.	<p>Yeast Pheromone Testbed for Molecular Communications (Phero-MolCom), Research Promotion Foundation of Cyprus, Duration 24 Months, (participant) (2022-2024), Total Budget €249,480; Start date: 1 January 2022. Partners: Frederick University and University of Cyprus (Cyprus).</p> <p>Molecular Communication (MC) harnesses the potential of biological processes to facilitate information exchange between biological entities at the molecular level. It opens exciting application opportunities in Health Systems and beyond as for example Industrial and Environmental. Specifically, for Health systems, the technology can be harnessed to develop the new generation of Biomedical Applications as for example therapeutic nano-machines (bacteria genetically modified to detect and/or destroy cancer cells), drug delivery systems and health monitoring (bio sensors). Molecular Communications can complement the existing electromagnetic based wireless In-Body Area Nanonetworks paradigm to realize the envisioned Internet of Nano-Bio-Things. The technology promotes excellence by offering tangible applications in Priority Sectors such as Health and Agriculture. The main objective of this proposal is to address this gap in the field and develop a new testbed for molecular</p>		80,640

	communications which unlike previous works employs a yeast pheromone based inter-species communication system, enabled by controlled cell to cell communication. The project will aim at characterizing the communication channel of the considered system using communications theory tools and explore how this characterization can be useful in optimizing information exchange among the transmitter and receiver through appropriate encoding and signal detection schemes. The biological system to be developed can serve as a proof of concept for molecular communications and contribute towards the development of novel components for next generation biomedical applications.		
2.	TRUSTID: Intelligent and Continuous Online Student Identity Management for Improving Security and Trust in European Higher Education Institutions (PI of UCY participation) (2021-2023), Project Code: 2020-1-EL01-KA226-HE-094869, total funding: €291,310 TRUSTID envisions to design, develop and evaluate, following a User-Centered Design (UCD) methodology, an innovative continuous user identification and student presence solution, which will be open-source and will rely on a data-driven multi-tier framework that will consist of state-of-the-art intelligent image, voice and interaction data classification algorithms.	€58,049.00	0
3.	Integrated Precision Medicine Technologies Research Center of Excellence (Participant) Call: H2020-WIDESPREAD-04-2017 (Teaming Phase 1) This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No.763781. The main goal of the proposed TEAMING project is to establish an inspiring multidisciplinary research and innovation centre, which will become a world leader in the development of new technologies (hardware and algorithms) to further enable and accelerate the development, translation, and application of precision medicine.	0	0
4.	DiversePass: Diverse Passwords based on Human Cognitive Differences, Research Promotion Foundation of Cyprus, COMPLEMENTARY/0916/0182, Duration 24 Months, (PI) (2020-2022), Total Budget €20.328,55; Start Date: 1 April 2018. Taking into consideration the diversity of humans in cognitive processing styles and abilities, we aim to recommend the best-fit user authentication type according to the users' unique individual cognitive processing characteristics. By doing so, we aim to support the users' efficiency and effectiveness of processing information as well as decrease the cognitive load, and eventually improve the user experience and user acceptance of the authentication system.	€20,329	

5.	<p>SERUMS: Securing Medical Data in Smart Patient-Centric Healthcare Systems. (PI of UCY participation) 826278, H2020-SC1-FA-DTS-2018-2020,</p> <p>Duration 36 Months, (PI) (2019-2021), Total UCY Budget €406 571.00; Total EU budget: €4,370,062.50. Start Date: 1 January 2019.</p> <p>Partners: The University Court of the University of St Andrews Ustan, United Kingdom, Stichting Zuyderland Medisch Centrum Zmc Netherlands, Accenture Netherlands, IBM Israel - Science And Technology, Israel, Sopra Steria Group, France, Universite Catholique De Louvain UCL Belgium, Software Competence Center Hagenberg GmbH Austria, University of Cyprus UCY Cyprus, Fundacio Clinic Per A La Recerca Biomedica FCRB, Spain.</p> <p>The goal of the Serums project is to put patients at the centre of future healthcare provision, enhancing their personal care, and maximizing the quality of treatment that they can receive, while ensuring trust in the security and privacy of their confidential medical data.</p>	€406,571	
COMPLETED PROJECTS			
6.	<p>HSAdapt: Real-time Control of the Wireless Behavior of Environments with HyperSurfaces, Research Promotion Foundation of Cyprus, COMPLEMENTARY/0916/0008, Duration 24 Months, (PI) (2018-2020), Total Budget €98,112.50; Start Date: 1 April 2018.</p> <p>Metamaterials (MMs) and Metasurfaces (MSs) are a new class of materials with engineered properties, even if these go against nature. Once designed and manufactured, commonly by specialised researchers in the field, they are generally `rigid` and optimised only for the set of the given application requirements and environmental conditions designed for. If any of these conditions change then their performance is altered. VISORSURF - A Hardware Platform for Software-driven Functional Metasurfaces project will provide programmatic MSs to implement customised behaviour, on demand, using a set of MS tiles, called HyperSurfaces (HSs). The optimisation of the behaviour will be dealt within VISORSURF mostly by using off-line techniques (e.g. Genetic Algorithms). This will only guarantee their behaviour as long as the environmental conditions designed for (e.g. angle of arrival of the e-m wave) remain the same. The objectives of HSAdapt, the proposed project, are to investigate the real-time control of these specialised HSs, which will allow for their dynamic and adaptive</p>	€98,112	

	control for given reference objectives, even with changing environmental conditions. Furthermore, it will look at the specification and verification of multi-agent, large-scale systems, which will support the implementation of the theoretical results of the project on a large scale. Finally, the theoretical directions will be supported by some experimentation and prototyping, extended from the VISORSURF project.		
7.	<p>VisorSurf - A Hardware Platform for Software-driven Functional Metasurfaces (VISORSURF), H2020-FETOPEN-2016-2017 (Research and Innovation action), (PI of UCY participation) (2017-2020), Proposal number: 736876, Total Budget 5,748,000 EUR, UCY EU funding 1,912,250 EUR; Duration: 42 Months, Start Date: 1 Jan 2017.</p> <p>Metasurfaces, thin film planar, artificial structures, have recently enabled the realization of novel electromagnetic (EM) and optical components with engineered functionalities. These include total EM radiation absorption, filtering and steering of light and sound, as well as nano-antennas for sensors and implantable devices. Nonetheless, metasurfaces are presently non- adaptive and non-reusable, restricting their applicability to a single, static functionality per structure (e.g., steering light towards a fixed direction). Moreover, designing a metasurface remains a task for specialized researchers, limiting their accessibility from the broad engineering field. VISORSURF proposes a hardware platform-the HyperSurface-that can host metasurface functionalities described in software. The HyperSurface essentially merges existing metasurfaces with nanonetworks, acting as a reconfigurable metasurface whose properties can be changed via a software interface. This control is achieved by a network of miniaturized controllers, incorporated into the structure of the metasurface. The controllers receive programmatic directives and perform simple alterations on the metasurface structure, adjusting its EM behavior. The required end-functionality is described in well-defined, reusable software modules, adding the potential for hosting multiple functionalities concurrently and adaptively. VISORSURF will study in depth the novel and unexplored theoretical capabilities of the HyperSurface concept. Two experimental prototypes will be implemented: a switch-based fabric array as the control medium; and a Graphene based, making use of its exquisite properties to provide finer control. A real pilot-application will demonstrate the HyperSurface potential to adapt to changes in their environment, to interconnect to smart control loops and make use of</p>	€1,962,250	

	<p>Information Technology (IT) programming concepts and algorithms in crafting the EM behavior of materials.</p> <p>Partners: Foundation for Research and Technology Hellas Greece, University of Cyprus Cyprus, Fraunhofer Gesellschaft Zur Foerderung Der Angewandten Forschung E.V. Germany, Signalgenerix Ltd Cyprus, Universitat Politecnica de Catalunya Spain, Aalto-Korkeakoulusaatio Finland.</p>		
8.	<p>DIRECTOR: Dynamically Reconfigurable mHealth Video Communications for Real-time Adaptation to Time-Varying Constraints, University of Cyprus Senior Research Fellowships, Principal Investigator (PI), Postdoctor supported Dr. Andreas Panayides (mentor), September 2015 – September 2017.</p> <p>Project Title: Dynamically Reconfigurable mHealth Video Communications for Real-time Adaptation to Time-Varying Constraints</p> <p>Project Acronym: DIRECTOR</p> <p>Project Title (Greek): Κωδικοποίηση Βίντεο σε Πραγματικό Χρόνο για Δυναμική Προσαρμογή στις Ευμετάβλητες Συνθήκες Δικτύου σε Εφαρμογές Κινητής Υγείας</p> <p>Project Description: The objective of this project was to develop a unifying framework to support real-time adaptation of mobile Health (mealth) video communication systems to time-varying constraints imposed by video content and available bandwidth. The goal was to provide reliable, diagnostically-lossless clinical video quality, throughout the streaming session, that aids in the adoption of mHealth video systems in standard clinical practice. The proposed approach relied on new, multi-objective optimization methods that facilitated real-time dynamically reconfigurable encoding configurations, which jointly optimized medical video quality, associated bitrate demands, and encoding time requirements. The resulting framework is scalable and underlying technology independent, in the sense that the developed methods are applicable to different video content, compression technologies, wireless networks, and processing devices, provided that the appropriate system training is performed.</p>	€42,800	0
9.	<p>RISE: Research Centre on Interactive media, Smart systems and Emerging Technologie, (Participant), H2020-WIDESPREAD-01-2016-2017: Teaming Phase 2</p>	0	€462,271

	<p>The proposed Research centre on Interactive media, Smart systems and Emerging technologies, with the apt acronym RISE, seeks to play a key role in the country's RTDI reform, by bringing together an unparalleled team. The initiative is headed by the Municipality of Nicosia (the capital city of Cyprus), enjoys the united effort of all three state universities of Cyprus (UCY, CUT, OUC), and is backed by the invaluable expertise and committed long-term support of two world-leading science and innovation institutions of Europe (UCL, MPI). Scientists hired directly by RISE, complemented by senior scientists from all academic partners, will combine their expertise across an intellectually diverse set of research areas (e.g., computer vision and graphics, psychology, human factors, design, communications, artificial intelligence, machine learning). This critical mass of scientists will enable RISE to immediately undertake high-gain interdisciplinary SSP-centred and innovation-driven projects, which go beyond what Cyprus' researchers have been able to pursue independently in their own institutions to date.</p> <p>Total funding Monetary value: 37,509,528 €; Total value 50,306,528 €</p> <p>The monetary contribution includes:</p> <p>EU Horizon 2020 Teaming Grant; 14,999,528 € (7 year horizon)</p> <p>Cyprus Government and ESIF funding, secured 15,000,000 €</p> <p>Project Duration: Nov 2017-Oct 2032 (15 year horizon)</p> <p>UCY funding from EU contribution: 462,271 €</p>		
10	<p>REACH - Rural broadband intErnet Access using Cooperative mesh networking in wHite space spectrum – EuropeAid/135-474/DD/ACT/IN-6 EU-India Research and Innovation Partnership, Lot 6 – Informatin and Commuication technologies Platform (ICI +/2014/6) (PI of UCY participation) (2014-2018).</p> <p>The overall aim of the REACH project is to develop a strong cluster-to-cluster partnership between research centres in the EU and India to develop advanced technical solutions for providing high-speed broadband Internet access in rural India by deploying cooperative mesh networking in the unlicensed (white space) spectrum. The project addresses information and communication technologies, as the targeted priority of common interest for the EU and India. The set-up of the research clusters will enable this project to draw from the experience of Europe's and India's leading research groups to maximise the benefits from the mobility schemes and the research collaborations.</p>	€21,756	0

	<p>City University London, Indian Institute of Technology Bombay, Indian Institute of Management, Ahmedabad, International Institute of Information Technology Bangalore, King's College London, Athens University of Economics and Business, University of Padova, University of Bordeaux, Instituto de Telecomunicações – Aveiro, University of Cyprus</p> <p>413,398 EU contribution.</p>		
11	<p>SEOP: Social Electricity On-line Platform (Project Coordinator and PI of UCY participation) (EU, FP7, 543375-LLP-1-2013-1-CY-KA3-KA3MP/SEOP) (2014-2016). This project aims to develop a social ICT platform that allows European citizens to be educated about energy-saving practices and techniques and the crucial importance of energy conservation for the society and the environment. It builds on Social Electricity, a Facebook application aiming to make citizens aware of their electrical consumption, by means of comparisons with the corresponding consumption of their friends, as well as with the total consumption in the street/neighbourhood/village/city/country where they live. By effective and realistic comparisons, consumers may perceive their energy behaviour and take steps to reduce their electricity and carbon footprint.</p> <p>UCY, CARDET, INTEGRA, MIEMA, ECC, EAC, KREA, MEATH, QUALED, UoA</p> <p>Funding to UCY from E.U., 74,392 Euro (75% of the total contribution to UCY of 99,189).</p> <p>Start date: 1/1/2014 Duration: 24 months</p> <p>Project Budget: 495,332 €, EU contribution: 371,499 €</p> <p>http://www.seop-project.eu/</p>	€74,392	0
12	<p>TOURIST GUIDE (PI of UCY participation) (2011-2013) IMH, Geomatics, UCY. Cyprus Tourist guide through smart phones and GPS devices.</p> <p>Funding to UCY from RPF., 28,892 Euro.</p> <p>Start date: 1/1/2011 Duration: 24 months</p> <p>Project Budget: 160,137 €, EU contribution: 114,828 €</p>	€28,892	0
13	<p>AGILE (PI of Cyprus participation and leader for WP on Embedding LSCS with Self-Tuning, Fault-Recovery and Re-Configuration Capabilities) (2010-2013) (EC, FP7-ICT-2009-5: Collaborative project, 257806) Rapidly-deployable, Self-tuning, Self-reconfigurable, Nearly-optimal Control Design for Large-Scale Nonlinear Systems. Funding to</p>	€235,896	0

	<p>UCY from E.U., 235,896 Euro (75% of the total contribution to UCY of 301,216).</p> <p>Centre For Research And Technology Hellas CERTH Greece, University Of Cyprus, UCY, Cyprus, The Pennsylvania State University PSU, United States, Afcon Software and Electronics Ltd Asel Israel, Sociedad Iberica De Construcciones Electricas Sa Sice Spain, Siemens Anonymos Etaireia Ilekrotechnikon Ergon Kai Proionton Sie Greece, Fraunhofer-Gesellschaft Zur Foerderung Der Angewandten Forschung E.V Fibp Germany, Municipality Of Chania TCD, Greece</p> <p>Start Date: 1st Sept 2010, Duration: 36 months</p> <p>Project Budget: 1,878,163 €, EU contribution: 1,299,094 €</p>		
14	<p>MIND2C (PI) (2008-2011) Mimicking Nature for Designing Robust Congestion Control Mechanisms in Self-Organized Autonomous Decentralized Networks (IPE), 99960 Euro</p> <p>Partners: UCY, Goldsmiths, University of London, University of Pretoria</p>	€99,960	0
15	<p>EM-VANETS (PI) (2008-2011) Emergency message dissemination for safety applications in vehicular ad-hoc networks (IPE), 99920 Euro</p> <p>Dec 2008 till Dec 2010</p> <p>Partners: UCY, University of Southern California, Open University of Cyprus, Transim</p>	€99,920	0
16	<p>GINSENG (co-PI of Cyprus participation) (2008-2011) (EC FP7, 224282, FP7-ICT-2007-2, Objective ICT-2007.3.7: Networked Embedded and Control Systems), Performance Control in Wireless Sensor Networks. Funding to UCY from E.U., 282,840 Euro (75% of the total contribution to UCY of 377,120).</p> <p>Partners: University College Cork, University of Cyprus, Galp Energia SA, SAP AG, Swedish Institute of Computer Science AB, Technische Universitaet Carolo-Wilhelmina zu Braunschweig, Lancaster University</p> <p>Project budget: 4.815.770 €</p> <p>Start date: 1 Sep 2008</p>	€282,840	0
17	<p>C-CAST (PI of Cyprus participation) (2008-2010) (EC FP7, 216462, FP7-ICT-2007-1 Objective ICT-1-1.1 Network of the future), Context Casting. Funding to UCY from E.U., 185,100 Euro (75% of the total contribution to UCY of 246,800).</p> <p>Partners: Portugal Telecom Inovação (PT), Telecom Italia (IT), Deutsche Welle (DE), BigBand Networks (IL), Motorola (FR), Fraunhofer-</p>	€185,100	0

	<p>Gesellschaft zur Förderung der angewandten Forschung (DE), Instituto de Telecomunicações (PT), University of St Gallen (CH), University of the West of England (UK), University of Applied Sciences Osnabrueck (DE), University of Kaiserslautern (DE), University of Cyprus (CY)</p> <p>Project total Cost: €5.85m</p> <p>EC Contribution: €3.70m</p> <p>The project started in 1 March 2008.</p>		
18	<p>TRAFICNET, (PI), (2007-2009), (IPE), Intelligent control of transportation system, Project funding from IPE, 72,776 CYP (about 126,630 Euro).</p> <p>Partners: UCY, University of Southern California,</p>	€126,630	0
19	<p>ASPIDA, (Scientific PI), (2007-2010), (IPE), Security in Sensor Networks, Project funding from IPE, 66,355 CYP (about 115,458 Euro).</p> <p>Partners: UCY, Sigint Solutions, University of Piraeus</p>	€115,458	0
20	<p>HRA, (Participant, with ECE), (2007-2009), (IPE), Location finding for current and next generation mobile networks, Project funding from IPE, 60,000 CYP (about 105,000 Euro)</p> <p>Partners: UCY, Cyprus Telecommunications Authority (CYTA)</p>	0	€105,000
21	<p>M-POWER (co-PI of Cyprus participation and leader for Work Package Security Middleware) (2006-2009) (EC FP 6, IST-2006-034707), Middleware platform for eMPowerIng cognitive disabled and elderly, (2006-2009). Funding to UCY from E.U., 375,000 Euro.</p> <p>Partners: SINTEF, Ericsson Croatia, Dimention Informatica, Austrian Research Centers, University of Cyprus, PIV/NCDR, CMUJ, TB-solutions, EAHSA</p> <p>Project budget: 3.9 M€ and requested grant of 2.35 M€</p> <p>The project started in 1 October 2006, duration 30 months.</p>	€375,000	0
22	<p>C-MOBILE (PI of Cyprus participation) (2006-2008) (EC FP 6, IST-2005-27423), Advanced MBMS For The Future Mobile World. Funding to UCY from E.U., 282,830 Euro.</p> <p>Partners: Portugal Telecom Inovação, (PT), France Telecom (FR), Deutsche Welle (DE), Bamboo (IL), University of Cyprus (CY), ADETTI (PT), University of St. Gallen (CH), University of the West, of England (UK), University of Applied, Sciences Osnabrueck (DE), Instituto de Telecomunicações (PT), Fraunhofer-Gesellschaft Zur Foerderung Der Angewandten Forschung (FhG_FOCUS) (DE), QUALCOMM CDMA Technologies (DE), and Hutchison3G UK (UK).</p>	€282,830	0

	<p>Project start date: 1 march 2006 Duratio: 24 months</p> <p>Total Cost: € 4,96m, EC Contribution: €3.25m</p>		
23	<p>MOTIVE, (PI of Cyprus participation and leader for WP on Specifications and Technical System Design) (2006-2008) (EC FP 6, IST-2005-27659), MOBILE Terminal Information Value addEd Functionality. Funding to UCY from E.U., 266,540 Euro.</p> <p>Partners: Institute of Communications and Computer Systems, NTUA (GR), Vodafone - Panafon S.A. (GR), VTT Technical Research Centre (Finland), Société Française du Radiotéléphone (SFR), (FR), Apex Concepts & Solutions AG (DU), Siemens AG (DU), University of Cyprus (UCY) (CY), AS Regio (LV)</p>	€266,540	0
24	<p>GENESIS (Participant) (2006-2009) (EC FP 6, IST FP6-2004-027867), Enterprise Application Interoperability via Internet - Integration for SMEs, Governmental Organisations and Intermediaries in the new European Union. Funding to UCY from E.U., 227,112 Euro</p> <p>Partners: SingularLogic Information Systems & Applications SA Greece, National Technical University of Athens Greece, Logo Yazilim Sanayi ve Ticaret A.S. Turkey, SAP AG Germany, BOC Information Systems GmbH Austria, Business Application Software Developers' Association UK, Kauno Technologijos Universitetas Lithuania, University of Cyprus Cyprus, Singular Czech S.R.O. Czech Republic, Ascont International SRL Romania, BOYTAS MOBILYA Sanayi ve Ticaret A.S. Turkey, Ministry of Finance – General Secretariat for Information Systems Greece, Insiel Informatica Per Il Sistema Degli Enti Locali S.p.A Italy</p>	0	€227,112
25	<p>Net6 (Participant) (2005-2007) (IPE), IPv6 Pilot Network for real time service support. Project funding from IPE ~50,000 Euro.</p> <p>Partners: UCY, Cyprus College</p>	0	€50,000
26	<p>TRUFBUS (Participant) (2005-2007) (IPE), Modeling and Analysis of Traffic and Impact of Dedicated Bus Lanes on Strovolos Avenue, Funding to UCY from IPE, ~60,000 CYP. Project funding from IPE about 105,000 Euro.</p> <p>Partners: UCY, University of Southern California</p>	0	€105,000
27	<p>B-BONE (PI of Cyprus participation and leader of WP: Radio Resource management and Core Network Optimisation) (2004-2006) (EC FP 6, IST 2003-507607): Broadcasting And Multicasting Over Enhanced UMTS Mobile Broadband Networks. Funding to UCY from E.U., 316,980 Euro.</p>	€316,980	0

	Partners: Portugal Telecom Inovação S.A. PTIN Portugal, Associação para o Desenvolvimento das Telecomunicações e Técnicas de Informática ADETTI Portugal, Technical University of Lisbon IST Portugal, University of Cyprus UCY Cyprus, Athens University of Economics and Business AUEB Greece, Aristotle University of Thessaloniki AUTH Greece, Motorola Ltd. Motorola UK, Alcatel SEL AG, Alcatel Germany.		
28	<p>E-NEXT (PI of Cyprus participation) (2004-2006) (EC IST FP6-Network of Excellence, 506869) Emerging Networking Experiments and Technologies. Funding to UCY from E.U., 47,600 Euro.</p> <p>PARTICIPANTS: (53 EU Universities and Research Centres) Faculdade Ciencias E Tecnologia Da Universidade De Coimbra, Portugal, Fraunhofer Gesellschaft Zur Foerderung Der Angewandten Forschung E.V. Germany, Technische Universitaet Carolo-Wilhelmina Zu Braunschweig, Germany, Universitat Politecnica De Catalunya, Spain, Telefonica Investigacion Y Desarrollo Sa Unipersonal, Spain, Universidad Politecnica De Madrid, Spain, Centre National De La Recherche Scientifique, France, Haskolinn I Reykjavik, Iceland, Ericsson Magyarorszag Kommunikacios Renszerek K.F.T., Hungary, Consorzio Interuniversitario Nazionale Per L'informatica C.I.N.I., Italy, University College Cork - National University Of Ireland, Cork, Ireland, Microsoft Research Limited, United Kingdom, Institut Eurecom, France, University Of Patras, Greece, Universite Catholique De Louvain, Belgium, Universiteit Twente, Netherlands, Budapest University Of Technology And Economics, Hungary, Universita Degli Studi Di Pisa, Italy, Kungliga Tekniska Hogskolan, Sweden, Universitetet I Oslo, Norway, Universitaet Mannheim, Germany, Politecnico Di Torino, Italy, Institut National De Recherche En Informatique Et En Automatique, France, Technische Universiteit Delft, Netherlands, Helsinki University of Technology, Finland, Technische Universitaet Darmstadt, Germany, Portugal Telecom Inovacao, S.A., Portugal, Universite Paris Vi, France, National And Kapodistrian University Of Athens, Greece, Universita Degli Studi Di Trento, Italy, Tampereen Teknillinen Yliopisto Finland, University Of Cyprus, Cyprus, Universite De Liege, Belgium, Intel Corporation (Uk) Limited, United Kingdom, The University Of Lancaster, United Kingdom, Sics, Swedish Institute Of Computer Science Ab, Sweden, Danmarks Tekniske Universitet, Denmark, Adetti - Associacao Para O Desenvolvimento Das Telecomunicacoes E Tecnicas De Informatica, Portugal, Ftw Forschungszentrum Telekommunikation Wien Betriebs-Gmbh, Austria, Eidgenoessische Technische Hochschule Zuerich, Switzerland, The Chancellor, Masters and Scholars of the University of Cambridge, United Kingdom, University College London, United Kingdom, Akademia Gorniczo-Hutnicza Im. Stanislawa W Krakowie, Poland, Thales Communications Sa, France.</p> <p>Start Date: 2004-01-01 Duration: 30 months Project Funding: 2.88 million euro</p>	€47,600	0
29	<p>CRUISE, (Participant), (2006-2008) (EC IST FP6-Network of Excellence)</p> <p><u>C</u>Reating <u>U</u>biquitous <u>I</u>ntelligent <u>S</u>ensing <u>E</u>nvironments (Network of</p>	0	€40,000

	Excellence on the Application and Communication aspects of Wireless Sensor Networking). Funding to UCY from E.U., ~40,000 Euro.		
30	POSIDON (Participant, with ECE) (2004-2006) (IPE), Sensor Nets for environmental control. Project funding from IPE, ~60,000 CYP (about 105,000 Euro)	0	€105,000
31	ERMES (Participant, with ECE) (2004-2006) (IPE), Quality of Service provision in real time services. Project funding from IPE, ~60,000 CYP (about 105,000 Euro)	0	€105,000
32	DBGlobe (Participant) (2002-2005) (IST-2001-32645): A Data-centric Approach to Global Computing. IST, Future and Emerging Technologies (FET). Funding to UCY from E.U., ~ 150,000 Euro.	0	€150,000
33	MEMO (Co-PI of Cyprus Participation) (2002-2004) (EC FP 6, IST-2001-35027), Medical Mobile Devices - Cluster Project MEMO. Funding to UCY from EC, 66,000 EURO.	€66,000	0
34	VIDEO (PI) (2004-2006) (IPE), Video transmission through mobile and wireless networks (WLANs/UMTS). Project funding from IPE, 67,595 CYP (about 117,615 Euro).	€117,615	0
35	ADAVIDEO (PI) (2004-2006) (UCY grant), Adaptive Methods for the Transmission of Video Streams in Wireless Networks. Funding to UCY 25,000 CYP (about 45,000 Euro).	€45,000	0
36	SKINIKO (PI) (2004-2005) (IPE), Designing secure and robust mobile services for home healthcare environments. Funding to UCY from IPE, ~35,000 CYP (about 55,000 Euro).	€55,000	0
37	HealthService-24 (Co-PI of Cyprus Participation) (2005-2006) (EC e-TEN Contract No. 517352)– Continuous Mobile Services for HealthCare. Funding to UCY from E.U. 156,000 Euro.	€176,320	0
38	LinkCare (Co-PI of Cyprus Participation) (2005-2006) (EC e-TEN, C517435), Linking Health Professionals in Emerging Care Environments. Subcontracting for UCY, 28,500 Euro	€28,500	0
39	DITIS II (PI) (2004-2006) (IPE), Collaborative Virtual Medical team for home healthcare of cancer patients. Project funding from the Cyprus Research Promotion Foundation (IPE) 25,850 CYP (44203 Euro)	€44,203	0
40	DITIS II (Co-PI) (2003-2004) (Cambridge Microsoft Research Labs), Virtual Collaborative Teams for Home Care. Funding from Microsoft Research Labs 50000 US dollars (42,373 Euro)	€42,373	0

41	SEACORN (PI of Cyprus participation and leader of WP: System level simulation) (2002-2004) (EC FP 5, IST), Simulation of Enhanced UMTS Access and Core Networks. Funding to UCY from E.U. 314,541 Euro.	€314,541	0
42	MOBINET, (external expert) (2003-2004) (Greek Research Promotion Foundation), Network of Excellence on Mobile Business. Funding to UCY from Greek Research Foundation ~12,000 Euro	€12,000	0
43	MB-NET (PI of Cyprus participation and overall Project Technical Manager) (2002-2003) (EC FP 5, IST), network of excellence in mobile business applications and services (m-Business)). Funding to UCY from E.U., 11,700 Euro.	€11,700	0
44	BEEP-NAS (co-PI of the Cyprus participation) (2002-2003) (EC FP 5 IST-2001-37444): Develop, test and implement a methodology linking best practice, benchmarking and knowledge management which has wide applicability across Europe and the IST programme, as well as providing a sustainable service package in the longer term having commercial potential. Funding to UCY from E.U. 24,000 Euro.	€24,000	0
45	EUNITE IST-2000-29207 (PI of the Cyprus participation) (2000-2004) EUropean Network on Intelligent TEchnologies for Smart Adaptive Systems. Funding to UCY from E.U: 5,000 Euro	€5,000	0
46	PRISMA (Participant) (2001-2003) (EC IST-1999-29088) promotes a citizen-driven Europe based on innovative approaches to modernizing citizens' services. Funding to UCY from E.U. 45,000 Euro.	0	€45,000
47	e-MINDER (PI of Cyprus Participation) (2001-2003) (EC FP 5, IST), Electronic Commerce Leveraging Network for Developing European Regions. Funding to UCY from E.U., 227,999 Euro.	€227,999	0
48	ENLARGE (Participant) (2001-2002) (EC FP 5, IST), Entrepreneurship Laboratory for Eastern European Regions. Funding to UCY from E.U., ~170,000 Euro.	0	€170,000
49	ENDIKTIS (Participant) (2002-2004) (IPE), Performance Evaluation of Networks with Quality of Service Provisioning. Funding to UCY from Research promotion Foundation ~30,000 CYP (52350 Euro)	0	€52,350
50	SATINT (Participant) (2002-2004) (Greek Research Foundation), Internet Techniques For Satellite Communications (under Greek-Italian Collaboration program from Greek Research Foundation, GSRT). Funding to UCY from GSRT 500,000 Drachmas ~ 1,500 Euro	0	€1,500

51	HERMES (Participant) (2000-2002) (IPE), Design and Development of a Personalised Internet Service for Collecting and Providing Heterogeneous Information. Funding to UCY from Research promotion Foundation, ~24000 CYP (41,880 Euro)	0	€41,880
52	MATHWN (Participant) (2001-2002) (IPE), Location Management for Mobile Agents. Funding to UCY from Research promotion Foundation, ~24000 CYP (41,880 Euro)	0	€41,880
53	EUMEDIS (PI) (2000-2003), (IPE-EUMEDIS PROGRAM), Design, Implementation and support of a Web-based Virtual office for the EU funded EUMEDIS program, Funding to UCY from Research promotion Foundation (EUMEDIS PROGRAM) 15,639 CYP (26742.69 Euro)	€26,742	0
54	DITIS I (Co-PI) (1999-2001) (IPE), Collaborative Virtual Medical team for home healthcare of cancer patients. Funding to UCY from Research promotion Foundation 27,000 CYP (47,115 Euro)	€47,115	0
55	Q-Med (Co-PI) (1998-2002) (EC FP 5, IST). Funding to UCY from E.U., ~170,000 Euro.	€170,000	0
56	ESIS-II: Cyprus (Participant) (1998-2001) (EC FP5, ISPO) European Survey in the Information Society, European Union. Funding to UCY from E.U. 105,000 Euro.	0	€105,000
57	CJIS (Participant) (1998-2001) INCO-DC, Cultural Journeys in the Information Society. Funding to UCY from E.U. 160,000 Euro.	0	€160,000
58	ERIS (Participant) (1996-1998) (UCY large program). Electronic Roads in the Information Society. Funding to UCY 160,000 Euro.	0	€160,000
59	1994 – today (PI): Annual Research Activity Grant (Funded by UCY), average of 3,500 CYP per year. Funding to UCY about 72,350 Euro since 1994.	€110,000	0
TOTAL FUNDING UNDER UCY		6,672,013	2,207,663

Other project participation

1.	A spectrum aware MAC protocol for short range wireless communication in the 2.4 GHz frequency band, Submitted by Dr Suvendi Rimer (University of Johannesburg), TTK14061769496, Thuthuka 2015, National Research Foundation South Africa, Ranking Track, 600,000 SA Rand, 1/1/2015 – 31/12/2017 (Co-investigator and mentor)	Euro 3000
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Participation in COST Actions

1.	COST IC0906 WiNeMO, 2010-2014, (Cyprus representative), Wireless Networking for Moving Objects (WiNeMO), Part of the group of initiators of the action. Funding to UCY about 4000 Euro/year. http://cost-winemo.org/	16000
2.	COST 290, 2004-2008, (Cyprus representative), Wi-QoS: Traffic and QoS Management in Wireless Multimedia Networks. Part of the group of initiators of the action. Funding to UCY about 3000 Euro/year. http://www.cost.eu/domains_actions/ict/Actions/290	12000
3.	COST 279 (Cyprus representative), Analysis and Design of Advanced Multiservice Networks supporting Mobility, Multimedia, and Internetworking. Funding to about UCY 6000 Euro.	6000
4.	COST 264 (Cyprus representative), Enabling Networked Multimedia Group Communication. Funding to UCY about 5000 Euro.	5000
5.	COST 257 (Cyprus representative), Impacts of New Services on the Architecture and Performance of Broadband Networks. Funding to UCY 5000 Euro.	5000

1.	Member of the NiSIS Project (Nature Inspired Smart Information Systems) for the Nature-inspired Networks group.	0
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B	Strategic Infrastructure projects from RPF	
6.	KIOS (Participant) (IPE), Research Center for Intelligent Systems and Networks (Ερευνητικό Κέντρο Τεχνολογίας Ευφυών Συστημάτων και Δικτύων «Κοίος»)	1,700,000
7.	NefroBiobank (Participant) (IPE), Creation of a kidney specific Biobank and infrastructure for genomics/proteomics research	3,845,656
	TOTAL FUNDING UNDER UCY	5,545,656 Euro

C	Funding to Cyprus Academic and Research Network (CYNET) mainly to support advanced networking e-infrastructure and networking services	Funding (Euro)
8.	GN3 (Co-PI of Cyprus Participation) FP7 (2009-2013): Multi-Gigabit European Academic Network. Funding to CYNET from EC ~1,000,000 Euro and from Government of Cyprus 1256400 Euro.	1,000,000
9.	GN2 (Co-PI of Cyprus Participation) FP6 (2004-2008): Multi-Gigabit European Academic Network. Funding to CYNET from EC ~1,000,000 Euro and from Government of Cyprus 1256400 Euro.	2256400
10.	EUMEDGRID (Participant) 2006-2008 EUMed GRID: empowering eScience across the Mediterranean. Funding to CYNET from EC 129,000 Euro and Government of Cyprus 22,000 Euro.	151000

11.	EUMEDCONNECT (Co-PI of Cyprus Participation) EUMEDIS (2002-2006) EUMEDCONNECT II - Extending the Mediterranean IP backbone - Phase II. Funding to CYNET from EC 292,000 Euro and Government of Cyprus 85,000 Euro	377000
12.	GEANT (Co-PI of Cyprus Participation), FP5 (2000-2005) The Next Generation of European Research Networking. Funding to CYNET from EC 700,000 Euro and Government of Cyprus 1,256,400 Euro	1956400
13.	Public Key Infrastructure Pilot (PI), (2004-2005) (CYNET). Funding by CYNET 12,856 CYP 22,369 Euro	22369
	TOTAL FUNDING UNDER CYNET	5,763,169 Euro

D	Funding through Swinburne University of Technology	Funding AUS \$
14.	SUT 1994, (PI), Small Grant for the investigation of hierarchical structures and techniques in wideband high speed networks (\$13000).	13000
15.	Australian Telecommunication Research Board 1993/1994 (PI) grant for the investigation of Approximate Reasoning and Robust Control in BISDN (\$3000)	3000
16.	Staff Development Scholarship (PI), awarded by The Department of Employment, Education and Training, Government of Australia, (\$48,000) from January 1992 through to December 1992 for full time research in Multiservice and multimedia Information Networking Systems.	48000
	TOTAL FUNDING	64,000 AUS

INDUSTRY DONATIONS OR SUPPORT

1. Member of the OPNET University Program.
2. In kind support from CISCO for the Networks Lab with Routers and Switching Hubs (about 40,000 US Dollars)
3. ATM pilot project with CYTA to interconnect 3 ATM switches via 34-155 Mbits/sec connections (one ATM switch donated to UCY) (about 30000 US Dollars)
4. Texas Instruments software and equipment in Digital Signal Processing (over \$15000 US Dollars), 1991

ADMINISTRATIVE EXPERIENCE - UNIVERSITY COMMITTEES

UCY university-wide and school based committees:

- ☐ Ad-Hoc committee on innovation and patents, University of Cyprus (2014-2018)
- ☐ University ad-hoc committee on Information Systems and Infrastructure (2016-)
- ☐ Department Chair, Department of Computer Science, University of Cyprus (2014-2016)
- ☐ Department Vice-Chair, Department of Computer Science, University of Cyprus (2010-2012)
- ☐ Chairman of the six-member evaluation committee on the IP telephony and Integrated Digital Information System of the University of Cyprus (UCY), Tender YPS_038_11, (budget value about 700 kEuro, 2011-2012).
- ☐ Member of the Faculty Board, School of Applied Sciences (2008-2011)
- ☐ Chairman of the five-member evaluation committee on the networking needs of the University of Cyprus, Tender YPS_024_09, (budget value 1 million Euro, 2009).
- ☐ Chairman of a special committee, appointed by the UCY Vice-Rector of International Relations, Finance and Administration, to design the overall framework for the new distributed computing paradigm at UCY. The framework and templates for Service Level Agreements (SLAs) were prepared by the committee (2008-2009).
- ☐ Member of the committee, set up by UCY Vice-Rector of International Relations, Finance and Administration in collaboration with CYNET, to prepare a study on 'Broadband access to the internet for the academic and research community'. The report is aimed to get support from the state (Ministry of Education) for the provision of cheaper ADSL access to all academic's users in Cyprus. Initial approval was given by the Minister of Education for its implementation in February 2009. Activities in this area are still underway.
- ☐ Chairman of the Senate Ad-hoc committee on commercialisation of ideas and research projects. The committee drafted the rules and regulations concerning commercialisation of ideas and research projects, consulting activities, and expected academic's conduct in these matters (2004-2005, 2006)
- ☐ Member of the Faculty Board, School of Applied Sciences (1997-1999)
- ☐ Member of the Senate Committee for Information Systems (1997-1999)
- ☐ Member of the technical committee advising on the Networking needs of the University of Cyprus (standing committee, since 1996)
- ☐ Member of the computer information technology systems subcommittee negotiating with CYTA the provision of a 2 Mbit/sec link to cover the needs of the University for Internet (1997)
- ☐ Member of department working committee on computer engineering, (1977)
- ☐ Member of department committee on industry liaison and funding, (1977)
- ☐ Member of the General Computer Equipment and Software needs for tender preparation for the University of Cyprus, (1996)
- ☐ Member of the Department of Computer Science Board (since 1995)
- ☐ Member of the committee on Postgraduate Studies, drafting the Rules and regulations regarding Postgraduate Studies in the Department of Computer Science, (1995)
- ☐ Member of the committee on Undergraduate Student Projects, drafting the Rules and regulations regarding Undergraduate Student Projects in the Department of Computer Science, (1995)
- ☐ Editor of the 1994-95 School Research Report.

Swinburne University of Technology:

- ☐ Chaired University wide Committee on Computer Communications, Data Communications, and Telecommunications, (1993-1994)
- ☐ Chaired Research Seminars Committee, School of Electrical Engineering, Swinburne University of technology. A weekly series of research seminars with invited speakers from academia, research centres and industry, (1993-1994)
- ☐ Member of the Executive Advisory Committee, School of Electrical Engineering, (1990-1994)
- ☐ Member of the Computer Committee, School of Electrical Engineering, (1993-1994)
- ☐ Member of University wide Committee on Image and Signal Processing, 1994.

Other

- ☐ Chair of the Ministerial Committee advising the Minister of Communications and Works on Telecommunications issues (2002-2003).
- ☐ Member of the European National Research and Education Networks (NREN) Policy Committee, currently overseeing GEANT 2 project.
- ☐ Member of Euro-Mediterranean IS Action Plan Steering Committee advising the EC on Information Society issues (1996-2000). (The committee is also known as the Aldana initiative. It has directly lead to the creation and securing of the EUMEDIS program worth 45MEuro for Euro-Mediterranean IS actions, launched in 2000).
- ☐ Member of Cyprus Information Society Action Plan Committee advising the government of Cyprus on Information Society issues (1995-2000).
- ☐ Member of the Mediterranean Information Society Forum (1997-2000).
- ☐ Member of the Ministry of Education's Committee for evaluating the Undergraduate Electrical and Computer Engineering Program (BEng) of two colleges of advanced education (Intercollege and Frederic) 2005.
- ☐ Served for two years (2002-2004) as a member of the evaluation committee for degree certification (Council for the Recognition of Higher Education Qualifications, KY.S.A.T.S.).

JOURNAL EDITORIAL

1. Member of the Editorial Board of ITU Journal on Future and Evolving Technologies (ITU J-FET) (since 2020).
2. Member of the Editorial Board of Computer Networks (COMNET) Journal (Area Editor) 2005-2018)
3. Member of the Editorial Review Board of the International Journal of Handheld Computing Research (IJHCR) (until 2018).

CONFERENCE ORGANIZATION

Major involvement in numerous conference organisations:

- i) International advisory member of WiSPNET 2022: International Conference on Wireless Communications, Signal Processing and Networking
- ii) General Chair for APPS 2022, 2021 and 2019: Adaptive and Personalized Privacy and Security,

- iii) Technical Program Chair, GameNets 2021, 16-17 December, 2021, (<https://gamenets.eai-conferences.org>)
- iv) Workshop co-chair "Adaptive and Personalized Privacy and Security (APPS)" UMAP 2020, 28th ACM Conference on User Modelling, Adaptation and Personalization, UMAP 2021, June 21-25, Utrecht, Netherlands (workshop proposer).
- v) Workshop co-chair "Adaptive and Personalized Privacy and Security (APPS)" UMAP 2019 27th ACM Conference on User Modelling, Adaptation and Personalization, 9-12 June, Larnaca/ Cyprus (workshop proposer).
- vi) Technical program Track Committee (TPC) Co-Chair ISNCC 2019 "Smart Communications Systems" Smart Communications Systems, 2019 IEEE International Symposium on Networks, Computers and Communications, Istanbul, Turkey, 18-20 June 2019.
- vii) Technical program Track Committee (TPC) Co-Chair ISNCC 2018, Smart Communications Systems, 2018, IEEE International Symposium on Networks, Computers and Communications, Rome, Italy, 19-21 June 2018.
- viii) Technical program Committee (TPC) Co-Chair, 4th ACM International Conference on Nanoscale Computing and Communication, September 2017, Washington DC, USA
- ix) General co-Chair, ISSPIT 2016, The 16th IEEE International Symposium on Signal Processing and Information Technology, December 2016, Limassol, Cyprus
- x) General co-Chair, Computing, Communications and IT Applications Conference (IEEE ComComAp 2015), October 2015, Cyprus
- xi) General co-Chair, ISCC 2015 - The Twentieth IEEE Symposium on Computers and Communications, 6-9 July, Larnaca, Cyprus.
- xii) General co-Chair, Workshop on Wireless Communications in Smart Grid and Smart Home co-chaired by Prof Andreas Pitsillides of the Department of Computer Science, University of Cyprus and Dr Suvendi Chinnapan of the Department of Electrical and Electronic Engineering Science, University of Johannesburg. Edison Room, Technolab, University of Johannesburg, Auckland Park Campus, 9m-4pm, Friday, 4 October 2013.
- xiii) General Chair, 11th Annual Mediterranean Ad Hoc Networking Workshop (MEDHOCNET2012), Ayia Napa, Cyprus, 19 - 22 June 2012.
- xiv) General Chair, The Eighteenth IEEE International Conference on Telecommunications, Ayia Napa, Cyprus, 8 - 11 May 2011(www.ict2011.org).
- xv) Vice General Chair, Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks, WiOpt 2007, Limassol, Cyprus, April 16-20 2007
- xvi) Technical program Chair, ISYC 2006, International Conference on Intelligent Systems and Computing: Theory and Applications, Ayia Napa, Cyprus, July 5-7, 2006
- xvii) ISCC Best Paper Award committee, IEEE Symposium on Computers and Communications (ISCC'06), June 26-29, Pula-Cagliari, Sardinia, Italy
- xviii) Technical program Chair, Workshop on Modeling and Control of Complex Systems (MCCS'05), Ayia Napa, Cyprus on June 30, July 1 2005
- xix) International Co-Chair of IEEE Conference on Computers and Communications, INFOCOM 2003
- xx) Executive Committee Member for IEEE Conference on Computers and Communications, INFOCOM 2001, INFOCOM 2002, and INFOCOM 2003
- xxi) General Co-chair of the 2nd Workshop on Applications of Computational Intelligence Techniques in Telecommunications, June 2000
- xxii) General Chair of the EuroMedNet'98 conference 'The role of the Internet, Intranet and the World Wide Web in the development of the Euro-Mediterranean Information Society' 1998
- xxiii) Executive Committee Member for the International Conference of ICT'97
- xxiv) Organiser and Chairman of the Panel discussion "Can high-speed wide-area networks be effectively controlled?" in INFOCOM 1996 (attended by over 300 participants)
- xxv) Co-Organiser and co-chair of the session "Emerging control approaches for quality of service (QoS) provisioning in communication networks" in CDC 2004

Chair of numerous technical sessions in major conferences, including INFOCOM, ISCC, ICT, WiOPT, WAC, CDC, m-Business, etc...

Member of the Technical Program Committee in numerous conferences, including (**indicative listing**).
Was involved in many more conferences since 1993:

- i) Program committee of Smart Environments and Assistive Technologies, part of the 13th International Conference on Complex, Intelligent, and Software Intensive Systems, July 3rd – July 5th, 2019, University of Technology Sydney (UTS), Sydney, Australia, <http://voyager.ce.fit.ac.jp/conf/cisis/2019/>
- ii) Program committee of ACM NanoCom 2016 (3rd ACM International Conference on Nanoscale Computing and Communication), New York City, September 28-30, 2016.
- iii) Program committee of IEEE/IFIP UMITS 2016, International Workshop on Urban Mobility & Intelligent Transportation Systems, Apr 25, 2016, Istanbul, Turkey.
- iv) Program committee of MELECON 2016, 18th Mediterranean Electrotechnical Conference, Intelligent & Efficient Technologies & Services for the Citizen, April 18 - 20, 2016, Limassol, Cyprus
- v) Program committee of WiNEMO: Wireless Networking for Moving Objects, 2014 Book. <http://cost-winemo.org/>
- vi) Program Committee of the IEEE ISCC 2014, Madeira, Portugal, 23-26 June 2014.
- vii) Program Committee of the IEEE workshop entitled WAS'COM (Workshop on Adaptive Systems for Communication Networks), Västerås, Sweden - July 21-25, 2014.
- viii) Program Committee of the IFAC Workshop on Advances in Control and Automation Theory for Transportation Applications (ACATTA'13), Istanbul, Turkey 16-17 September, 2013.
- ix) Program Committee of the 3rd IFIP Conference on Sustainable Internet and ICT for Sustainability (SustainIT 2013), Palermo, Italy, October 30-31, 2013.
- x) Program Committee of the ISCC 2013, 18th IEEE Symposium on Computers and Communications, Split, Croatia, 7-10 July 2013.
- xi) Program Committee of the PIMRC'13 - Mobile and Wireless Networks (2013 IEEE 22nd International Symposium on Personal, Indoor and Mobile Radio Communications: Mobile and Wireless Networks, London, UK), 8-11 September 2013.
- xii) Program Committee of the NETWORKING 2013, Brooklyn, USA, on May 22 – 24, 2013.
- xiii) Program Committee of the CFIC 2013 (Conference on Future Internet Communications), Coimbra, Portugal, May 15-16, 2013.
- xiv) Program Committee of the ITC 2013 (25th International Teletraffic Congress), Shanghai, China, September 10-12, 2013
- xv) Program Committee of the ComManTel-2013 - International Conference on Computing, Management and Telecommunications (2013) - <http://www.commantel.net/2013/>
- xvi) Program Committee of the ICNC'13 - NAPE (International Conference on Computing, Networking and Communications, Network Algorithm & Performance Evaluation Symposium)
- xvii) Program Committee of the FGCT 2012 International Conference on Future Generation Communication Technology (FGCT 2012), London, UK during December 12-14, 2012.
- xviii) Program Committee of the NGMAST'12
- xix) Program Committee of the AICT 2012, The Eighth Advanced International Conference on Telecommunications, Stuttgart, Germany, May 27 - June 1, 2012.
- xx) Program Committee of the IEEE ISCC 2012, 17th IEEE International Symposium on Computer and Communications, Cappadocia, Turkey, July 1 - 4, 2012.
- xxi) Program Committee of the Network Algorithms and Performance Evaluation (NAPE) track, ICNC 2012 (International Conference on Computing, Networking and Communications), Maui, Hawaii, January, 23-26, 2012
- xxii) Program Committee of the IEEE ISCC 2011, 16th IEEE Symposium on Computers and Communications, Kerkyra (Corfu), Greece, 28 June-1 July 2011

- xxiii) Program Committee of the IEEE PIMRC'11 - LPAN (22nd IEEE Personal Indoor Mobile Radio Communications - Local and Personal Area Networks Track)
- xxiv) Program Committee of the 10th International Conference on Mobile Business – ICMB 2011 (www.mbusiness2011.org), Como, Italy, 2011
- xxv) Program Committee of the 5th International Conference on Next Generation Mobile Applications, Services, and Technologies (NGMAST'11), Cardiff, UK on 7-9 September 2011.
- xxvi) IWCMC2011 Wireless Sensor Networks Symposium, The 7th International Wireless Communications and Mobile Computing Conference—(IWCMC 2011) July 5 - 8, 2011 Bahçeşehir University, Istanbul Turkey.
- xxvii) 9th ACS/IEEE International Conference on Computer, Systems and Applications (AICCSA 2011), to be held June 27-30, 2011, in Sharm El-Shiek, Egypt
- xxviii) Program Committee of the Fifth International Symposium on Telecommunications (IST2010), Kish Island, Iran, December 4 to 6, 2010.
- xxix) Program Committee of the 1st International Workshop on Bio-Inspired Approaches to Advanced Computing and Communications (BIOADCOM2010) in conjunction with 5th International ICST Conference on Bio-Inspired Models of Network, Information, and Computing Systems (BIONETICS 2010), Boston, Massachusetts, December 1-3, 2010
- xxx) Program Committee of the Wireless Applications and Computing (WAC 2010), Nuremberg, Germany, 2010.
- xxxi) Program Committee of the MobiFNet 2010, First International Workshop on Mobility in Future Networks. In conjunction with FutureTech 2010, Busan, Korea, 21-23 May 2010.
- xxxii) Program Committee of the 4th International Conference on Next Generation Mobile Applications, Services, and Technologies (NGMAST'10), Amman, Jordan on 26-29 July 2010
- xxxiii) Program Committee of the IWCMC 2010 Wireless Sensor Networks Symposium
- xxxiv) Program Committee of the "Pervasive Services and Data Management" track of IEEE-SUTC 2010 IEEE International Conference on Sensor Networks, Ubiquitous, and Trustworthy Computing (<http://sutc2010.eecs.uci.edu/>), June 2010.
- xxxv) Program Committee of the 9th International Conference on Mobile Business (ICMB) and the 9th Global Mobility Roundtable (GMR), 2010, June 2010.
- xxxvi) Program Committee of the ITAB 2009, 9th IEEE International Conference on Information Technology and Applications in Biomedicine, 5-7 November 2009.
- xxxvii) PIMRC'09 (The 20th IEEE International Symposium On Personal, Indoor and Mobile Radio Communications)
- xxxviii) NGMAST'09
- xxxix) CAMCD '09 (International Workshop on Context-Aware Multimedia Content Delivery).
- xl) 2009, Mediterranean Conference on Information Systems
- xli) IWCMC 2009 Wireless Sensor Networks Symposium
- xl ii) ICT2009,
- xl iii) ICANN2009,
- xl iv) ISCC2009,
- xl v) WAC 2009
- xlvi) International Program Committee for the 12th IFAC Symposium on Control of Transportation Systems, Redondo Beach, California, September 2-4, 2009
- xl vii) NASTEC'2008 (North American Simulation Technology Conference) International Conference on Hybrid Soft Computing for Modelling, Simulation, Software Engineering and Web Computing, Montreal, Canada, August 2008
- xl viii) Technical Programme Committee of NGMAST'08.
- xl ix) 5th International Conference on Service Systems and Service Management (ICSSSM'08), Melbourne, Australia, 30 June - 2 July 2008
- l) International Conference on Information & Communication Technologies: from Theory to Applications - ICTTA'08, April 7 - 11, 2008 in Damascus, Syria
- li) IEEE Conference on Computers and Communications (INFOCOM), 2002, 2003

- lii) IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC) 2008
- liii) IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC) 2007
- liv) Technical Programme Committee of NGMAST'07. NGMAST'07 (International Conference and Exhibition on Next Generation Mobile Applications, Services, and Technologies)
- lv) IEEE Symposium on Computers and Communications (ISCC), 2002, 2003, 2004, 2005, 2006, 2007
- lvi) IFIP International Conferences on Networking, (NETWORKING), 2004, 2005
- lvii) Mediterranean Ad Hoc Networking Workshop (Med-Hoc-Net), 2004
- lviii) IEEE Global Telecommunications Conference (GLOBECOM), 2005, 2006
- lix) International Joint Conference on e-Business and Telecommunications, (ICETE), 2004, 2005
- lx) IADIS International Conference on Wireless Applications and Computing (WAC2007), 2007
- lxi) International Joint Conference on Wireless Information Systems, (WINSYS), 2006
- lxii) IEEE International Conference on Information & Communication Technologies: From Theory To Applications (ICTTA), 2004, 2006
- lxiii) International Workshop on Mobility In Databases And Distributed Systems (MDDS) 2004, 2005
- lxiv) Asia-Pacific Conference on Communications (APCC), 2005
- lxv) The International Human.Society @ Internet conference, (Human.Society@Internet), 2005
- lxvi) Euro Conference on Mobile Government (The EURO mGOV), 2005
- lxvii) World Congress on Lateral Computing, (WCLC) 2004, 2005
- lxviii) IEEE International Conference on Mobile Business (m-business, ICMB), 2002, 2003, 2004, 2005
- lxix) IFAC-symposium on Transportation Systems, 2006, 2007.

Plus many earlier conferences, since 1993.

REVIEWER

Journals (indicative)

Regular reviewer of major Journals and Conferences. The list of journals includes:

- i) IEEE Communication Magazine
- ii) IEEE/ACM Transactions on Networking,
- iii) IEEE Journal on Selected Areas in Communications,
- iv) Computer Networks Journal,
- v) Computer Communications Journal,
- vi) Performance Journal,
- vii) IEEE Transactions on Automatic Control,
- viii) IFAC Control Engineering Practice Journal,
- ix) International Journal of Control,
- x) Fuzzy Sets and Systems,
- xi) Journal of Intelligent and Fuzzy Systems,
- xii) IEEE Transactions on Neural Networks,
- xiii) Discrete Event Dynamic Systems Journal,
- xiv) International Journal of Computer Systems & Engineering,
- xv) Wiley's Wireless Communications and Mobile Computing Journal,
- xvi) Wireless Personal Communications Journal,
- xvii) Journal of Mobile Multimedia,
- xviii) IEEE Communications Magazine,

- xix) IEEE Networks Magazine,
- xx) IEEE Communications Letters,
- xxi) SIMPRA - Simulation Practice and Theory journal,
- xxii) IEEE Journal on Selected Areas in Communications of "Optical Communications and Networking,
- xxiii) Engineering Applications of Artificial Intelligence Journal,
- xxiv) Journal of Systems Architecture,
- xxv) International Journal of Healthcare Technology and Management,
- xxvi) IEEE Transactions on Computers,
- xxvii) Journal of Modelling and Simulation,
- xxviii) IEEE Wireless Communications magazine,
- xxix) Journal of Interconnection Networks,
- xxx) International Journal of Mobile Communications,
- xxxi) Business Process Management Journal.

Conferences (indicative)

Regular reviewer in a number of major international conferences, indicatively:

In addition to the Conferences acting as Program Committee member (see above):

ICNC 2012, ISCC2011, GECCO 2010, PIMRC2009, ICT2009, ICANN2009, IWCMC,2009
ISCC2009, INFOCOM, Globecom, ICC, ISCC, ICT, CDC, ACC, IFIP NETWORKING, MedHock
Net, WiOPT, IST Mobile Summit, PIMRC, ICTTA ,IFAC-CTS, SoftCOM, APCC, MDDS, ICETE,
ICMB, M-Business, IEEE Workshop on Adaptive Wireless Networks, ACS/IEEE International
Conference on Computer Systems and Applications, AICCSA, IMAACA, SCI, Wireless
Networking Symposium QoS and Performance Modeling Symposium, etc...

Research project funding evaluation

- ☐ National Research Foundation (NRF), 2013, 2016, 2017, 2020, South Africa
- ☐ National Science Centre, Poland, March 2020
- ☐ Academy of Finland, 2017, Evaluation of plans of intent for Academy Professors, Finland
- ☐ EPSRC Research Grant, 2015, UK
- ☐ National Research Foundation (NRF), 2013, South Africa
- ☐ National Research Council, 2012, Romania
- ☐ Technology Foundation STW, member of the Dutch Organization for Scientific Research (NWO), Budget 1.5 Million Euro, 2009.
- ☐ Austrian Science Fund, 2004.
- ☐ Ministry of Commerce and Industry, Cyprus, Call for High Technology and Innovative Incubator Companies, Project Evaluator, January 2003, December 2007

TECHNICAL CONSULTING

He is widely consulted by private industry and government.

- i) Technical consultant of the proposed University of Neapolis, (IT study, including networking and security), Pafos, 2006

- ii) Technical consultant of the University of Cyprus, IP Telephony (VoIP) study (2005)
- iii) Technical consultant of the Government of Cyprus (Ministry of Health) on networking and security for the paperless and filmless New Nicosia General Hospital and New General Famagusta Hospital (2003- 2005)
- iv) Study by Schlumberger-Sema for the government of Cyprus on the Formulation of a National Strategy and Legal framework for an Electronic Commerce (2002)
- v) Consultant of Cyprus Development Bank for the development of the Cyprus IT strategy (2001)
- vi) Consultant of Army, Information Services Unit, Consulting on Network Security issues (2001-2002)
- vii) Technical consultant of the Government of Cyprus (DITS, Department of Information Technologies Services) on the Government Internet Node (GIN). A high availability, high security Internet, Intranet and Extranet Network providing services and interconnection to all government departments (1998-1999)
- viii) Technical consultant of the Government of Cyprus (DITS, Department of Information Technologies Services) on the Government Data Network (GDN). A Wide Area ATM based Virtual Private Network, providing national coverage to the government of Cyprus (1996-1998)
- ix) Cyprus Telecommunications Authority (CYTA) on ATM traffic modelling, performance evaluation, and management and control issues for the Cyprus national ATM based network (1995-1996)
- x) Dunlop Olympic Tyres: Process control; plant operator graphic interface design; program design; and system commissioning (1987).

TEACHING AND STUDENT SUPERVISION

Courses developed and taught

In addition to a number of networking classes Andreas has taught numerous undergraduate and postgraduate courses in Electrical Engineering, including analog and digital communications, control theory, and digital signal processing.

The following courses in networking are/were **developed and taught**

At the University of Cyprus

- i) CS 324 Communications and Networks (was labelled as CS224 prior to 2005) (undergraduate. 1995 -)
- ii) CS 420, High Speed Multimedia and Multi-service Networks (undergraduate, 1996-2002)
- iii) CS 442 Digital Signal Processing (undergraduate, 1996-1999)
- iv) CS 653 Computer Networks (postgraduate, 2000-2004). Currently labelled as EPL606
- v) CS 657 Mobile and Wireless Networks (postgraduate, 2005 - present)
- vi) CS 375 Advanced Networks (2015)
- vii) CS202 Explorations in Computer Science (2015)
- viii) CS450 Network Virtualisation and management (2018)

At Swinburne University of Technology:

- i) Data Communication and Computer Communication (1993-1994);
- ii) Discrete Systems and Digital Signal Processing (1990-1994);
- iii) Telecommunication Systems (1990-1993);
- iv) Communication Systems (1991-1993)
- v) Principles of Communication Systems (1988-1992).

The following courses were taught at the University of Cape Town during the first semester of 2008, during his Sabbatical year.

- vi) EEE5025Z Wireless data networks and systems, Masters, 1st semester, 2008, Department of Electrical Engineering, University of Cape Town.
- vii) EEE4002F - Telecommunications and Data Networks, 4th Year Undergraduate, 1st semester, 2008, Department of Electrical Engineering, University of Cape Town.

The following courses were taught at the International Hellenic University during the first semester of 2015.

- viii) ISE07 - Network and Services Management, MSc in Information and Communication Technology (ICT) Systems

Brief description of some of the courses:

COURSE Title: **CS 324 Communications and Networks** (undergraduate, compulsory)

URL: <http://www.cs.ucy.ac.cy/courses/EPL324>

Description: Data and computer communication fundamentals. Protocols, local and wide area networks, open systems, such as OSI and the Internet, interconnection of networks. TCP/IP Suite of Protocols and Internet Layers: Application, Transport, Network, Link Layer and LANs, and Physical Layer. Introduction to network and protocol performance evaluation.

COURSE Title: **CS 420 High-Speed Multimedia and Multiservice Networks** (undergraduate, elective)

URL: <http://www.cs.ucy.ac.cy/courses/EPL420>

Description: Extension of the basic knowledge about Computer Networks regarding architectures, techniques and protocols supporting multimedia and multiservice networks. This course emphasizes on the upper layers of the networking stack (application, transport and network). Contents: Introduction to Computer Networks and the Internet, Network Layer - IPv6, Routing - Multicast

Routing, TCP, Congestion Control, Performance Analysis, Multimedia Networking Applications. Real-time services and protocols, Quality of Service, MPLS, Traffic Engineering, QoS Routing, Mobile and Wireless Networks, Issues in Security for Computer Networks.

COURSE Title: CS 606 – Computer Networks and the Internet (postgraduate, core)

URL: <http://www.cs.ucy.ac.cy/courses/EPL653/>, <http://www.cs.ucy.ac.cy/courses/EPL606/>

Description: Introduction to Internet and Networking Technologies. TCP/IP suite of protocols, Quality of Service (QoS), New Networking Architectures. Protocols and Standards (e.g. DiffServ, IPv6, MPLS). Network Performance Evaluation (e.g. queueing theory, and simulation tools). Traffic Modeling and Traffic Engineering. Congestion Control and Resource Allocation. Network Design and Optimization.

COURSE Title: CS 657 – Mobile Wireless Computer Networks (postgraduate, elective)

URL: <http://www.cs.ucy.ac.cy/courses/EPL657/>

Description: Wireless environment, Interference and other problems in wireless communications, basic principles of cellular wireless networks and wireless local area networks. New architectures and technologies of wireless networks and wireless communication (e.g., ad-hoc and sensor networks). Resource management techniques, Next Generation wireless networks, design and planning of wireless networks, protocols for wireless and mobile networks. Adhock and Sensor Networks.

COURSE Title: CS 450 – Network virtualisation and services (undergraduate, elective)

URL: <http://www.cs.ucy.ac.cy/courses/EPL450/>

This course aims to introduce traditional and newer trends in Network Management, explain the different technologies that are used in network management, and how they relate to each other. In particular, it will provide more detail into the different management reference models, such as Fault, Configuration, Accounting, Performance, and Security (FCAPS), the different building blocks of network management, the protocols used, the organization of data, and the management communication aspects. Furthermore, especially emphasis will be given to newer trends in network management, including virtualisation of the network and its management and control (e.g. Software Defined Networks, Network Function Virtualisation) and the cloud.

Student Evaluations

The teacher's evaluations consistently score very high, averaging 4.4 out of 5 (88%). My encouragement of students to work on challenging open, state of the art projects, has been very popular both in undergraduate, as well as postgraduate students. This is reflected in the high number of requests for both undergraduate projects, as well as for postgraduate supervision. Furthermore, a number of undergraduate thesis have resulted in conference and journal publications.

Subject	Semester	Academic Year	Score (out of 5)
EPL420	Spring	1994 – 1995	4.4
EPL224	Winter	1996 – 1997	4.41
EPL224	Winter	1997 – 1998	4.4
EPL224	Winter	1998 – 1999	4.12
EPL224	Winter	1999 – 2000	4.63
EPL224	Winter	2000 – 2001	4.15
EPL224	Winter	2001 – 2002	4.65
EPL653	Spring	2001 – 2002	4.63
EPL224	Winter	2002 – 2003	3.77
EPL653	Spring	2002 – 2003	4.6
EPL224	Winter	2003 – 2004	4.17
EPL653	Spring	2003 – 2004	4.82

EPL224	Winter	2004 – 2005	4.73
EPL657	Spring	2004 – 2005	4.95
EPL224	Winter	2005 – 2006	4.06
EPL657	Spring	2005 – 2006	3.86
EPL357	Winter	2011-2012	4.22
Average score (out of 5)			4.66

Collaboration with postdocs

- i) Taqwa Saeed (PhD, 2020), Researcher Sweden.
- ii) Sasmita Dash (PhD, 2020)
- iii) Nouman Ashraf (PhD, 2021)
- iv) Rafay Iqbal Ansari (PhD, 2021)
- v) Demetris Koutsapas (PhD)
- vi) Panayiotis Kouvaros (PhD)
- vii) Iacovos Ioannou (PhD, 2021) Researcher (CYENS Research Centre). Affiliated with NetRL.
- viii) Marios Lestas (PhD, 2005), Lecturer at Frederick University of Technology, Nicosia, Cyprus). Affiliated with NetRL.
- ix) Christophoros Christophorou (Ph.D., 2011), Researcher (CYENS Research Centre). Affiliated with NetRL.
- x) Andreas Kamilaris (PhD, 2013), Researcher. Affiliated with NetRL.
- xi) Christos Liaskos (PhD), Researcher, affiliated with NetRL
- xii) Aggeliki Tsiolaridou (PhD), Researcher, affiliated with NetRL
- xiii) Panayiotis Kolios (PhD, 2012), Researcher with KOIOS research Centre. Affiliated with NetRL.
- xiv) Pavlos Antoniou (PhD, 2012), Special Teaching Staff, Department of Computer Science, University of Cyprus. Affiliated with NetRL.
- xv) Andreas Panayides (Ph.D., 2011), Researcher. Affiliated with NetRL.
- xvi) Yiannos Mylonas (PhD, 2010), Special Teaching Staff, Department of Computer Science, University of Cyprus, 2010. Affiliated with NetRL.
- xvii) Josephine Antoniou (PhD, 2010), Lecturer, University of Central Lancashire (UCLan), Cyprus Campus, Department of Computer Science, Affiliated with NetRL.
- xviii) George Papageorgiou, PhD, TRAFBUS project, 2005-2009. (Managing Director and Founder of Transim, Nicosia, Cyprus).
- xix) Chrysostomos Chrysostomou (PhD, 2006), 2006-2009. (Lecturer at Frederick University of Technology, Nicosia, Cyprus). Affiliated with NetRL.

Completed supervised Ph.D. dissertations

At University of Cyprus

- i) Argyris Constantinides (Ph.D.), Personalised authentication using customised password approaches based on cognitive abilities of use, April 2022, Current Position: PostDoc CS Department, UCY.
- ii) Iacovos Ioannou (Ph.D.), A novel Distributed Artificial Intelligence framework with Machine Learning for 5G/6G communication, Sept 2021. Current position. Researcher, CYENS Research centre (co-supervised with V. Vassiliou)
- iii) Eliana Stavrou (Ph.D.), An Intrusion Recovery Security Framework in Wireless Sensor Networks, Thesis was defended in February 2014. Current position: Assistant Professor in Cybersecurity, University of Central Lancashire Cyprus..
- iv) Andreas Kamilaris (Ph.D.), Enabling Smart Homes using Web Technologies, Department of Computer Science, University of Cyprus, Thesis was defended in December 2012.

- Assistant Professor, Pervasive Systems Group, University of Twente and Team Leader, Pervasive Real-World Computing for Sustainability (SuPerWorld) Research Group, Research Centre on Interactive Media, Smart Systems and Emerging Technologies (RISE).
- v) Andreas Xeros (Ph.D.), Information Dissemination in Vehicular Ad Hoc Networks, Department of Computer Science, University of Cyprus, Thesis was defended in November 2012. Head Authorisation, POS & ATM Systems - JCC Payment Systems Ltd
 - vi) Pavlos Antoniou (Ph.D.), Nature-inspired Congestion Control Techniques for Autonomous Decentralized Networks, Department of Computer Science, University of Cyprus, Thesis was defended in May 2012. Current position: Special Teaching Staff, Department of Computer Science, University of Cyprus.
 - vii) Andreas Panayides (Ph.D.), Diagnostically Resilient Encoding, Wireless Transmission, and Quality Assessment of Medical Video, (co-advisor with Prof. Constantinos Pattichis), Department of Computer Science, University of Cyprus, Thesis was defended in May 2011.
 - viii) Christophoros Christophorou (Ph.D.), Radio Resource Management for Efficient Multicast Service Provision in 3rd Generation Mobile Cellular Networks, Department of Computer Science, University of Cyprus, Thesis was defended in April 2011. Research Centre on Interactive Media, Smart Systems and Emerging Technologies (RISE) and affiliated with CS dept UCY (lecturing and project research)
 - ix) Yiannos Mylonas (Ph.D.), Speed Adaptive Information Dissemination in Vehicular Ad-Hoc Networks, Department of Computer Science, University of Cyprus, Thesis was defended in June 2010. Current position: Special Teaching Staff, Department of Computer Science, University of Cyprus.
 - x) Josephine Antoniou (Ph.D.), Cooperative Interactions in Converged Heterogeneous Communication Networks, Department of Computer Science, University of Cyprus, Thesis was defended in Jan. 2010. Current position: Assistant Professor, School of Sciences (Computing), Assistant Professor in Computing, course leader of MSc Computing, and Research Lead for the School of Sciences at UCLan Cyprus University of Central Lancashire (UCLan), Cyprus.
 - xi) Chrysostomos Chrysostomou (Ph.D.), Fuzzy Logic based AQM Congestion Control in TCP/IP networks, Thesis was defended in 2006. Current position: Assistant Professor, Department of Computer Science & Engineering, Frederick University.

Elsewhere

- i) Marios Lestas (Ph.D.), Intelligent Congestion Control for Computer Networks, (co-advisor with Prof. Petros Ioannou), University of Southern California, USC. Thesis was defended in 2005. Current position: Associate Professor, Department of Electrical Engineering, Frederick University.
- ii) Ahmet Sekercioglu (Ph.D.), Monash University, Adaptive Fuzzy Control in Asynchronous Transfer Mode (ATM) based networks (External supervisor. Jointly supervised with Prof. Greg Egan). Thesis was defended in 1999. Current position: Senior Lecturer, Department of Electrical and Computer Systems Engineering, Monash University.
- iii) Xing Xu (Ph.D.), Congestion control structures and algorithms for ATM networks, Swinburne University of Technology, Call number 621.3823 HU-C (External supervisor. Jointly supervised with Prof. Jim Lambert while at Swinburne University of Technology, Thesis was defended in 1996.

Completed supervised M.Sc. Theses

At University of Cyprus (In part 1995-2020)

- i) Georgia Kalli, ADVisE: Adaptive Data Visualizations Framework, 2020
- ii) Athanasios Maimaris, Bus Rapid Transit (BRT): Modeling, Simulation and Analysis of Performance in the Case of Archangelou Avenue, 2018
- iii) Andreas Kailos, Exploiting the sensors on Smart Phones for Personal Assistant support, 2018.

- iv) Irene Christodoulou, Ad-hoc Emergence Response Networks, 2018
- v) George Tertsinski, Smart Grid fault and security issues, 2018
- vi) Christos Aplitziotis, HelpNet Implementation and Evaluation Using Wifi Hotspot Capabilities t, May 2015.
- vii) Marios Michael, Raising Engagement on Social Electricity Platform, May 2015.
- viii) George Taliadoros, Improving Social Electricity based on Cypriot Citizens Needs, December 2014.
- ix) Evaggelia Vanezou, Using ICT technologies in order to raise awareness of adults about energy consumption, December 2014.
- x) Pamos Simeou, CYFINDME - Location Based Services in Android platform, December 2014.
- xi) Pavel Christofi, The evolution of Information Security: from Computer Security to Information Assurance and future challenges, Septeber 2014.
- xii) Dimitris Stokkos. Thesis title: Building a Mobile Application for Social Electricity, Dec 2013.
- xiii) Yiota Tsokkou. Thesis title: Analysis of Online Collaborative Platforms, Dec 2013.
- xiv) Koula Papakonstantinou. Thesis title: Using DNS for Global Discovery of Environmental Services, June 2013.
- xv) Maria Nikolaou. Thesis title: Using Request Queues for Enhancing the Performance of Smart Home Operations. June 2013.
- xvi) Pani Koullourou, Thesis title: Congestion control for streaming applications in Wireless Sensor Networks, June 2009.
- xvii) Sophie Christophorou, Thesis title: Delay/Jitter Prediction as part of RAN Selection mechanism in 4G Converged Networks, June 2008.
- xviii) Nicos Ioannou, Thesis title: Streaming video over wireless LANs, May 2007.
- xix) Antoniou Antonios, Thesis title: Sensor Network control of overload conditions, May 2007.
- xx) Sergiou Charalambos, Thesis title: Congestion Control in Wireless Sensor Networks, May 2007.
- xxi) Christos Haralambous, Thesis title: Investigating IPv6 mobility and roaming issues, May 2007.
- xxii) Neophytos Vlotomas, Thesis title: Enhanced Channel Switching in MBMS UMTS using a Dynamic Power Counting scheme, June 2006.
- xxiii) Eliana Stavrou, Thesis title: Security issues in e-Healthcare, June 2006.
- xxiv) Avgousti Rodothea, Thesis title: Workflow Analysis and Engineering in a Health Care Environment, June 2006.
- xxv) Andreou Panayiotis, Thesis title: A secure XML based synchronization scheme for mobile devices, June 2006.
- xxvi) Ioakim Sikopetritis, Thesis title: QoS support using feedback based layered video streaming, June 2006 (jointly with Vasos Vasiliou).
- xxvii) Christophoros Christophorou, Thesis title: A New Efficient Handover Algorithm for MBMS Enabled 3G Mobile Cellular Networks, Sept. 2005.
- xxviii) Marinos Stylianou, Thesis title: Evaluating the Network Survivability: Issue of K-Best Paths through Graph Theoretic Techniques, June 2005.
- xxix) Loizos Papageorgiou, Thesis title: Analytic and Simulative Evaluation Study of 802.11 (DCF), June 2005.
- xxx) Josephine Antoniou, Thesis title: Coverage and Capacity Planning in Enhanced UMTS, June 2004.
- xxxi) Marios Pieri, Thesis title: PKI Infrastructure in e-Health, November 2004.
- xxxii) Costas Tziouvas, Thesis title: Extending diffserv architecture: integration of IDCC and RMD framework, May 2003.
- xxxiii) George Hadjipollas, Thesis title: Simulative Evaluation of IDCC in a resource management differentiated services environment, June 2003.
- xxxiv) Yiannos Mylonas, Thesis title: Implementation and Evaluation of Differentiated Services on Linux, July 2001.
- xxxv) Loukas Rossides, Thesis title: Congestion Control in Integrated Services Networks, 1999.

At International Hellenic University (2015)

- xxxvi) Apostolidis Panagiotis, Network Management Aspects in Software Defined Networks, International Hellenic University, School of Science & Technology, MSc in ICT Systems 2015.
- xxxvii) Pagomenos Apostolos, Spectrum Management in the smart home, International Hellenic University, School of Science & Technology, MSc in ICT Systems 2015.

While at Swinburne University of Technology (1992-1995)

- xxxviii) Nguyen Vinh, A customer/carrier perspective on multiple objective function optimisation in multimedia and multiservice networks (jointly supervised with Prof. Jim Lambert).
- xxxix) Champika Hansa, Automated management of traffic in telecommunication networks (jointly supervised with Prof. Jim Lambert)
- xl) Shoba Akula, Fault detection in wideband LANs (jointly supervised with Prof. Jim Lambert)
- xli) Sedef Sekercioglu, Performance monitoring in ATM based wideband local area networks (jointly supervised with Prof. Jim Lambert)
- xlii) Lee Kwee Leen Leepin, Detection and elimination of narrowband interference in mobile broadband telecommunication networks using knowledge based artificial neural networks (jointly supervised with Dr. Cheng Siong Lee)

External examiner for PhD and Master's students

Andreas was an external examiner in numerous Masters and PhD dissertations, in USA, UK, South Africa, India, Australia, Portugal and Cyprus.

PhD

- i) Payal Tusharkumar Mahida, Ph.D. Thesis. "Indoor Navigation for the Visually Impaired: Enhancements through Utilisation of the Internet of Things and Deep Learning" School of Computer, Data and Mathematical Sciences, Western Sydney University, Sydney, Australia, September 2021.
- ii) Sai Krishna Mothku, PhD Thesis, Energy Efficient and Reliable Algorithms for Data Gathering in Wireless Sensor and Actor Networks, Thesis submitted to the Department of Computer science and Engineering, National Institute of Technology Warangal, India, April 2019.
- iii) Rafay Iqbal Ansari, PhD Thesis, Analytical Modeling and Performance Analysis of Green 5G D2D and Multi-tier Networks, Thesis submitted to the Department of Electrical and Computer Engineering and Infomatics, Frederick University, Nicosia, Cyprus, April 2019.
- iv) Waqar Asif, PhD Thesis, Critical Node Identification for Accessing Network Vulnerability, A Necessary Consideration, Thesis submitted to the Department of Electrical & Electronic Engineering, City University, London, UK, 2016
- v) AA Ajibesin, PhD Thesis Title: Novel Approaches to Performance Evaluation and Benchmarking for Energy-Efficient Multicast: Empirical Study of Coded Packet Wireless Networks, Thesis submitted to the Department of Electrical Engineering, University of Cape Town, 2015.
- vi) Farnaz Farid, PhD Thesis Title: Methodical Evaluation of Quality of Service for Heterogeneous Networks, Thesis submitted to the Computing, Engineering, and Mathematics Department, University of Western Sydney, 2015.
- vii) Tony Cricenti, PhD Thesis Title: Traffic Modelling of On-line First Person Shooter Games, PhD Thesis submitted to the Telecommunication Engineering, Faculty of Information & Communication Technologies, Swinburne University of Technology, 2013.
- viii) Demetrakis Constantinou, PhD Thesis Title: Ant Colony Optimisation Algorithms for Solving Multi-Objective Power-Aware Metrics for Mobile Ad Hoc Networks, PhD Thesis submitted to the School of Information Technology, University of Pretoria, August 2010

- ix) Michalis Markou, PhD Thesis Title: A perturbation analysis of stochastic fluid models approach, PhD thesis submitted to the Department of Electrical and computer Engineering, University of Cyprus, July 2009 (member defense committee)
- x) Michalis Michaelides, PhD, Thesis Title: Distributed Event Detection and Localization in Wireless Sensor Networks, PhD thesis submitted to the Department of Electrical and computer Engineering, University of Cyprus, March 2009 (member defense committee)
- xi) Yuan Cui, PhD, Thesis Title: Analysis of FAST TCP, buffer requirements and congestion price estimation, Department of Electrical and Electronic Engineering, University of Melbourne, Australia, September 2007.
- xii) Marios Lestas, PhD, Thesis title: Intelligent Congestion Control for Computer Networks. University of Southern California, Member of the 5 member PhD Defence Committee, PhD thesis submitted to University of Southern California, USA, December 2005.
- xiii) S. Witosurapot, PhD, Thesis title: Resolving Competition for Resources between Multimedia and Traditional Internet Applications, PhD thesis submitted to Swinburne University of Technology, Melbourne, Australia, August 2004.
- xiv) Chandana Watagodakumbura, PhD, Thesis title: Quality of Service Guarantees for Aggregated Real Time Traffic, PhD thesis submitted to RMIT University, Melbourne, Australia, April 2003.
- xv) Antonio C.M. Almeida, PhD, Thesis title: Congestion Control in Packet Switching Networks, Member of the 5 member PhD Defence Committee, PhD submitted to Instituto Superior Técnico, Technical University of Lisbon, Lisbon, Portugal, April 2003.

Masters

- i) Keoikanste O.A. Marungwana, M.Eng., Thesis title: Multimedia Session Continuity in the IP Multimedia Subsystem: Investigation and Testbed Implementation, M.Eng. thesis submitted to Department of Electrical Engineering University of Cape Town, February 2010.
- ii) Robert Marston, M.Eng., Thesis title: Multimedia Content Adaptation for Internet Protocol Television Services in the IP Multimedia Subsystem, M.Eng. thesis submitted to Department of Electrical and Computer Engineering University of Cape Town, January 2008.
- iii) Ioannis Papageorgiou, M.Sc., Thesis Title: Mobile Receiver Localization with an Enhanced Received Signal Level Method Signal Level Method, Department of Electrical and Computer Engineering, UCY, June 2006.
- iv) Johnny Lai, M.Eng, Thesis title: Performance evaluation of mobility management protocols in MIPv6, M.Eng thesis submitted to Monash University, Melbourne, Australia, September 2004.
- v) Eric Wu, M.Eng., Thesis title: Performance Analysis of Handover Time Reduction Schemes for Mobile IPv6 Devices on Wireless 802.11 Networks, M.Eng thesis submitted to Monash University, Melbourne, Australia, , March 2004.
- vi) Dragan Klimovski, M.Eng., Thesis title “Investigation of the applicability of subspace techniques in the identification of signal sources of the brain”, Monash University, Melbourne, Australia, February 1997.
- vii) Ming’Yoh Raymond Chou, M.Sc., Thesis title “Lossless smoothing algorithm for video-on-demand MPEG video transmission in ATM network”, MSc thesis submitted to Latrobe University, Melbourne, Australia, October 1995.
- viii) Se-Sam Chan, M.Sc., Thesis title Adaptation of MPEG coding to ATM network, M.Sc. thesis submitted to Latrobe University, Melbourne, Australia, February 1995.

Current postgraduate students

PhD

At University of Western Macedonia, Greece

- i) P. Voutsikides, «Στρατηγικές Ενορχήστρωσης σε Συστήματα Υπολογιστικής Άκρου.», University of Western Macedonia (co-supervised with Malamati and Papavassiliou)

MSc

- i) Christos Yelasis, Green Dusbini management through IoTs.

Undergraduate student projects

BSc Diploma Thesis (UCY)

In excess of 100 undergraduate theses at UCY. Over half of the theses have a research oriented nature and are closely involved with research projects.

Indicative thesis (2010 - 2013):

- i) Andreas Loizou. Fair Comparisons of Electricity Consumption between Cypriot Citizens using Machine Learning Techniques. 2013
- ii) Eleni Filippou. Smart Grid and Smart Home Security. 2013
- iii) Marios Michael. Evaluation of Social Electricity Facebook Application. 2013
- iv) George Taliadoros. Deploying SocialElectricity in Cyprus.2012
- v) Simos Hatzicostas. A DIY Approach for Web-enabling your Smart Home. 2012
- vi) Diomidis Papadiomidous. SocialElectricity: Energy Awareness through Social Networking. 2011
- vii) Giannis Kitromilides. A Competition for Energy Awareness in Multi-Resident Buildings. 2010.
- viii) Michalis Yiallourous. An Application GUI for a Web-based Smart Home. 2010

BEng Diploma Thesis (Swinburne University of Technology)

In excess of 100 undergraduate Theses at Swinburne University of Technology.