Curriculum Vitae (CV)

Dr. Constandinos X. Mavromoustakis

Name: **Dr. Constandinos X. Mavromoustakis**

Address: **Office: Mekedonitissas 46, POBox 24005, Nicosia**
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Personal: **Birthday: 25/10/1974**
                           Marital status: Married

Education:

Undergraduate work:
(Degree, Date received)

- Five Year Diploma in Electronic & Computer Engineer (BEng/MEng), Technical University of Crete – Greece. (Accredited by KISATS as Master of Engineer (MEng)), GPA: 7.13/10 (*ranked 8th*out of 72).
  Final year project: "Ant based decentralized routing using antipheromone principle for performance and Routing measurements used in Circuit Switching Communication Networks". First Class Grade 10/10, June 2000.

Graduate work:
(Degree, Date received)

- MSc in Telecommunications, Department of Electronic and Electrical Engineering, University College of London, University of London (October 2001).
  Dissertation Project title: VoIP versus PSTN - A quantitative approach.

- PhD in Computer Science, Aristotle University of Thessaloniki-Greece, Department of Informatics.
  Title: "Time variant and dependant scheduling in distributed systems– Performance evaluation of dynamic environments". Grade: Distinction (November 2005).
  PhD supervisor: Prof. Helen Karatza.

Postgraduate work:
(post-doctoral)

Positions Held:
(reverse chronological order)

- April 2011 -present
  Associate Professor at the department of Computer Science at the University of Nicosia.

- October 2013-today
  Appointed as Chair of Department's Postgraduate Programmes Committee (DPPC Chair for Computer Science) at the University of Nicosia.

- April 1st 2012 – April 1st 2014
  Associate Head of the Department of Computer Science at the University of Nicosia.

- May 2011/Spring semester
  Appointed visiting faculty at the Coventry University, Faculty of Engineering, Department of Computing and the Digital Environment as faculty mobility Erasmus participant at the University of Nicosia.

- March 2011-May 2014
  E-Learning program coordinator at the Department of Computer Science at the University of Nicosia.

- Oct 2007- April 2011
  Assistant Professor at the department of Computer Science at the University of Nicosia.

- August 2009 –Sept 2010
  Visiting faculty/Special Expert Scientist at the Cyprus University of Technology at the Department of Electrical Engineering and Information Technologies (EEIT). Course outline exponent and teaching instructor in the field of Operating Systems (ΗΜΠ 333) and Systems Programming (ΗΜΠ 238).

- Jan 2009 –Jan 2010
  Adjunct Lecturer at the Mediterranean Institute of Management (MIM) of the Cyprus Productivity Centre, Department of the Ministry of Labour and Social Insurance, Cyprus.

- Oct 2006 -Sept. 2007
  Assistant Professor at the department of Computer Science at Intercollege.

- Nov.2005 – Aug. 2006
  Postdoctoral Research scientist (Computer Architecture and Communications Lab) at the Department of Informatics, Aristotle University of Thessaloniki, Greece.

- Oct. 2001- Nov. 2005
  Research collaborator at Research center of Aristotle University of Thessaloniki.
  European Union Research Grant number: #21798 Under of: The Hellenic Ministry of National Education and Religious Affairs' Framework "Operational Program for Education and Initial Vocational Training (O.P. Education)", Research committee of Aristotle University of Thessaloniki.

- Feb. 2002- Feb. 2005

Undergraduate Full-time instructor/research associate, teaching at the University of Lincoln, UK.

Areas of Concentration/ Research Interests:

- Scheduling in distributed systems and spatiotemporal scheduling in pervasive computing environments. Self organizing time-variant scheduling algorithms for decentralized control.
- Metaheuristic techniques and Swarm Intelligence in spatiotemporal distributed systems. Ant systems and self organized ontology systems/ Performance evaluation of multi-agent systems/ Systems enabled with collective intelligence/Mimetic schemes for Pervasive Environments-Epidemic Algorithms for optimizing system's performance.
- Distributed Ambient Intelligence and self cooperative Ambient Intelligence/ Computational biology for computer network modeling and for parallel discrete event simulation.
- Epidemic-based Distributed replicated objects (including concurrency control, distributed deadlock detection and avoidance).
- Scheduling in hybrid systems, Heterogeneous Systems and Agent-based Heterogeneous Systems, Mechanisms for Scheduling in Hybrid Systems, Reliable Multicasting on Hybrid Communication Networks, Stigmergetic scheduling in Heterogeneous Systems.
- Self organizing scheduling and adaptive behaviour for energy conservation in dynamically varying distributed environments. Parallel schemes and optimization algorithms using spatiotemporal feedback. All forms of Clustering in self organizing systems and Self Configured systems.

Professional Associations

Organization/field	Title
Member of US Society for Computer Simulation (SCS)	Professional member
Member of the Association of Computer Machinery (ACM)	Professional member
Member of IEEE Computer Society (ComSoc)	Professional member
Member of IEEE Computational Intelligence Society	Professional member
Member of US Association for Information Systems (AIS)	Professional member
Member of EPE-Greece (Hellenic Informatics Union)	Professional member
Member of Panhellenic Informatics Engineers and Communications Union	Professional member
Member of UK Operational Research Society (ORS)	Professional member
Member of IEE (UK)	Professional member

Funding (grants, contracts, research awards)
(source, date, project amount)

- Horizon 2020, "nExt generation eMergencY commuNicatiOnS" Proposal acronym: EMYNOS, Call: H2020-DRS-2014, Topic: DRS-19-2014, Type of action: RIA, Proposal number: 653762. Grant amount: 4,13 M Euros.). Start-date: 1-10-2015 to 30-4-2018.

- Participation as coordinator in the National Project co-funded by the European Union, for Patents and Intellectual Property Rights Protection ΚΑΙΝΟΤΟΜΙΑ/ΕΥΡΕΣΙ/1114/05. Ranked 1st in the evaluation process, Approved: 2-Feb-2016. Duration: 31 Months (Feb 2016-Oct. 2018), Amount: 20,000€.

- Eurostars project 8111 DELTA-Network-Aware Delivery Clouds for User Centric Media Events. DELTA project aims at developing an innovative and ready-to-market solution that synergistically combines Networked Media and Telecommunications technologies with Cloud Computing assets into a unified digital ecosystem, enabling users to exploit OTT and IT/Comms services with maximum possible cloud and network-centric parameterized experience. Approved: 02-Sep-2013, Call > 10, Duration: 24 Months, Amount: 1,812,400€. (***Ranked upon evaluation 1st in ICT domain and 5th over all existing domains, out of 529 proposals***). Start-date: 1-1-2014 to 1-1-2016.

- Participation in Large-scale Integrating Project (IP), Network Functions as-a-Service over Virtualised Infrastructures (T-NOVA), ICT Call 11 (FP7-ICT-2013-11) - Objective ICT-2013.1.1 call: Future Networks 2014-2017 Overall Budget: 6.743M; Period September 2014- September 2017, Duration 36 months.

- Participation in ANTENA Project "Evaluating electromagnetic field exposure and credibility during the operation of modern communications wireless systems", Funded by: Greek Ministry of Education, Greece. Duration: September 2012 - October 2015.

- Participation in National Greek Secretariat Project ΑΡΧΙΜΗΔΗΣ III – Enhancing Research Groups and encouraging Team members, Τίτλος υποέργου: Βέλτιστη ΕκμετάΛΛευση των διαθΕσιμων πόΡων και Ενοποιημένη διαχείριση των χρηστών/υπηρεσιών σε υποδομές επίγειας ψηΦιακής διαδραστικής ευρυ-εκπΟμπής, για τηΝ παροχή οπτικοακουσΤικού περιεχομένου εγγυημένης ποιότΗτας, σε πολίτεΣ "λιγότερο ανεπτυγμένων" περιοχών. (acronym: ΒΕΛΛΕΡΕΦΟΝΤΗΣ). Funding body: EdLL Operational Program "Education and Lifelong Learning". Duration: Oct. 2013-Dec. 2015 (Roles: Research Collaborator and local Partner Coordinator).

- Participation in Greenet Initial Training Network (ITN) Marie Curie project / (http://www.fp7-greenet.eu/default.php). Duration: Sept. 2013- Dec. 2014 (Roles: Research Collaborator and local Partner Coordinator), Amount: 6.500€.

- EU co-funded project "DISFER - Distributed Sensor Systems For Emergency Response", Program entitled "THALIS", co-funded by the Greek Ministry of Education, Life Long Learning and Religious Affairs and the European Social

Fund, under the Operational Project: "Education and Life Long Learning" 2012-2014, Responsibilities: Research Collaborator/Primary Partner.

- Research Promotion Foundation of Cyprus under the PENEK project VSense (Vehicular Sensor Network Infrastructure) which is a two year research project that aims to improve the performance of Vehicular Sensor Networks (VSN). Funded by the Research Promotion Foundation, University of Cyprus, Project duration: 2011-2013, Responsibilities: Research Collaborator.

- European Union Research Grant number: #21798, Under of: The Hellenic Ministry of National Education and Religious Affairs' Framework "Operational Program for Education and Initial Vocational Training (O.P. Education)", Research committee of Aristotle University of Thessaloniki., Oct. 2002- Dec 2005, Grant earned: 33,298€, Primary Investigator(s): Dr. Helen Karatza, Dr. Constandinos Mavromoustakis.

- Oct. 2004- Dec 2004, EPEAEK project for redesigning the teaching material for undergraduate courses, funded by Research committee of Aristotle University of Thessalonica. Grant number #21537, Hellenic Ministry of National Education and Religious Affairs' Framework "Operational Program for Education and Initial Vocational Training (O.P. Education)". Primarily this project targeted the -from scratch- redesign of the teaching infrastructure for some crucial courses assigned to each participant, like "Software Engineering", "Distributed Systems Security" and "Distributed Systems Simulation" (main participant).

Honors and Awards/Distinctions:
(for teaching, research, service)

- Early Stage Researcher Grant recipient by the COST.EU office secretariat. IEEE GlobeCom attendance 8th-14th December 2013. Amount: 2.5K Euros.
- Research winning award for the research contribution awarded by the Research Dissemination Results Center Aristotle University of Thessaloniki (AUTH). Award winner as a fundamental scientific team member of the PDSG Group and Alumni faculty who won major awards in competitions both nationally and internationally and exposed substantial contribution in his research area, September 21, 2011.
- Society for Modelling and Simulation International (SCS) and the Organizing Committee of the 2006 Spring Simulation Multiconference Best Paper Award- awarded April 2007 (awarded by the general chairs, Prof. Maurice J. Ades, Prof. Hamilton John, SpringSim 2007).

- Scholarship awarded by the A.G. Leventis Foundation for an "Outstanding research performance and penetrative research abilities in the Computer Science field" (2002-2005).
- European Union Project Participation scholarship "Heraclites" 2002-2005 grant #21798/2002, by the Hellenic Ministry of National Education and Religious Affairs' Framework "Operational Program for Education and Initial Vocational Training (O.P. Education)", Research committee of Aristotle University of Thessaloniki.
- Graduated from Technical University of Crete, Department of Electronic & Computer Engineer, Chania, Crete-Greece ranked 8th from the total number of in-class students, and IKY/ Greek Government Scholarship for two years (1997, 1998).
- *Full Cyprus Government Scholarship* for the per academic year performance at the dept. Electronic & Computer Engineer, Technical University of Crete–Greece, and for the excellent performance on university entry examinations (1st), 1992 (duration: 5 full academic years).

Languages:
(Fluent Proficient Competent)

- Greek (mother tongue).
- English good level (GCEE-C) & IELTS. Overall Score: 6,50 (Speaking 7,0 out of 9,0).
- French (GCEE O-level, Certificat Generale de Francais).

Research & Publications

Doctoral Dissertation: "Time variant and dependant scheduling in distributed systems – Performance evaluation in dynamic environments", Aristotle University of Thessaloniki-Greece, Department of Informatics (Nov. 2005).

Books (authored/edited)
B1. Constandinos Mavromoustakis, George Mastorakis, Jordi Mongay Batalla, Book title: *"Internet of Things (IoT) in 5G Mobile Technologies"*, in series Title: Modeling and Optimization in Science and Technologies, to be published by Springer International Publishing AG, fourth quarter of 2015 to appear Dec 2015 (expected).

B2. George Mastorakis, Constandinos X. Mavromoustakis, Evangelos Pallis, Book title: "*Resource Management of Mobile Cloud Computing Networks and Environments*", to be published by IGI Global (former IDEA Group publisher) http://www.igi-global.com, May 2015.

B3. Constandinos Mavromoustakis, George Mastorakis, Evangelos Pallis, Book title: "*Resource Management in Mobile Computing Environments*", in series Title: Modeling and Optimization in Science and Technologies, to be published by Springer International Publishing AG, May 2014 (final stage of writing-up/editing process).

Books (under signed contract/under preparation)

BP1.   Evangelos Markakis, George Mastorakis, Constandinos X. Mavromoustakis, Evangelos Pallis, Book Title: Cloud and Fog Computing in 5G Mobile Networks: Emerging Advances and Applications, Topic Area: Computing and Mobile Communications, Institute of Engineering and Technology (IET)/former IEE/UK Publisher, first quarter of 2017 (expected).

BP2.   Ciprian Dobre , Constandinos X. Mavromoustakis , Nuno Garcia Rossitza Ivanova Goleva, George Mastorakis, "Ambient assisted living and enhanced living environments: principles, technologies and control", Elsevier publisher Inc., to be published by Elsevier, third quarter of 2016 (expected).

BP3.   Constandinos Mavromoustakis, George Mastorakis and Ciprian Dobre, Book title: *"Advances in Mobile Cloud Computing and Big Data in the 5G Era"*, Series Title: Studies in Big Data, to be published by Springer International Publishing AG, fourth quarter of 2015 to August 2016 (expected).

BP4.   Jordi Mongay Batalla, George Mastorakis and Constandinos Mavromoustakis, Book title: *"The Internet of Everything"*, in Series Title: Internet of Things: Technology, Communications and Computing, to be published by Springer International Publishing AG, fourth quarter of 2015 to February 2016 (expected).

Edited Volumes (edited/co-edited)

E1. Ciprian Dobre, George Mastorakis, Constandinos X. Mavromoustakis, Fatos Xhafa, Special issue on Parallel Algorithms and Architectures for Large Data Sets, *IEEE Transactions on Sustainable Computing (approved March 2016),* to appear third quarter of 2016.

E2. Ciprian Dobre, George Mastorakis, Constandinos X. Mavromoustakis, Fatos Xhafa, pecial issue on Parallel Algorithms and Architectures for Large Data Sets, Journal of Parallel and Distributed Computing, Elsevier (http://www.journals.elsevier.com/journal-of-parallel-and-distributed-computing/call-for-papers/special-issue-on-parallel-algorithms-and-architectures-for-l/), to appear third quarter of 2016.

E3. Jordi Mongay Batalla, George Mastorakis, Constandinos X. Mavromoustakis, Wiley Publisher, International Journal on Network Management (IJNM) Special Issue on "Management of the Internet of Things and Big Data", Wiley, to appear April 2016.

E4. George Mastorakis, Evangelos Pallis, Constandinos X. Mavromoustakis, Lei Shu, Joel J. P. C. Rodrigues, *IEEE Systems Journal* Special Issue on "Multimedia Services Provision over Future Mobile Computing Systems", 2014/to appear April 2015.

E5. George Mastorakis, Evangelos Pallis and Constandinos X. Mavromoustakis, "Future Mobile Computing Environments and Multimedia", Special Issue in International Journal of Wireless Networks and Broadband Technologies (IJWNBT), IGI-Global, to appear and published end of 2014.

E6. Constandinos Mavromoustakis, Lei Shu, Tasos Dagiuklas and Yang Xia, "High Performance Mobile Opportunistic Systems", Transactions on Emerging Telecommunications Technologies (ETT), Wiley, to appear and published end first months of 2014.

E7. Helen D. Karatza and Constandinos X. Mavromoustakis, "Simulation-based Performance Evaluation of Infrastructures for the Internet of Things: Connectivity and resource considerations in the mobility Era", Simulation Modelling Practice and Theory/Elsevier, Volume 34, May 2013, pp. 157–158, 2013.

Book chapters in books and volumes/series (refereed)

BC1.   Ioannis Vakintis, Spyros Panagiotakis, George Mastorakis, Constandinos X. Mavromoustakis, "Evaluation of a Web Crowd-Sensing

IoT Ecosystem providing Big Data Analysis", in the Book on "Resource Management for Big Data Platforms and Applications" a book in "Studies in Big Data" Springer series with editors: Florin Pop, Joanna Kołodziej and Beniamino di Martino, Springer International Publishing, 2016.

BC2. Evangelos Markakis, George Mastorakis, Daniel Negru, Evangelos Pallis, Constandinos X. Mavromoustakis, "A Context-Aware System for Efficient Peer-to-Peer Content Provision", in the Book Pervasive Computing: Next Generation Platforms for Intelligent Data Collection with book editor: Prof. Fatos Xhafa. For release in the "Intelligent Data-Centric Systems" Book Series of publisher Morgan Kaufmann / Elsevier.

BC3. Zaharias D. Zaharis, Christos Skeberis, Pavlos I. Lazaridis, Dimitrios I. Stratakis, George Mastorakis, Constandinos X. Mavromoustakis, Evangelos Pallis, and Thomas D. Xenos, "Design and optimization of wideband log-periodic dipole arrays under requirements for high gain, high front-to-back ratio, optimal gain flatness and low side lobe level: The application of Invasive Weed Optimization", to appear as a chapter in Book "Wireless Network Performance Enhancement via Directional Antennas: Models, Protocols, and Systems", Edited by John D. Matyjas, Fei Hu, Sunil Kumarto, be published by Taylor & Francis LLC, CRC Press, December 2015.

BC4. Odysseas Shiakallis, Constandinos X. Mavromoustakis, George Mastorakis, Athina Bourdena, Evangelos Pallis, Evangelos Markakis, Ciprian Dobre, "A Scheduling Scheme for Throughput Optimization in Mobile Peer-to-Peer Networks", in the Book on "Emerging Innovations in Wireless Networks and Broadband Technologies",Editor: Prof. Naveen Chilamkurti, publisher: IGI-GLOBAL, 2015 (accepted).

BC5. Mihail Costea, Radu-Ioan Ciobanu, Radu-Corneliu Marin, Ciprian Dobre, Constandinos X. Mavromoustakis, George Mastorakis, "Causal and Total Order in Opportunistic Networks" in the Book on "Emerging Innovations in Wireless Networks and Broadband Technologies", Editor: Prof. Naveen Chilamkurti, publisher: IGI-GLOBAL, 2015 (accepted).

BC6. Evangelos Markakis, Daniel Negru, Joachim Bruneau-Queyreix, Evangelos Pallis, George Mastorakis, Constandinos X. Mavromoustakis, "A P2P Home-Box Overlay for Efficient Content Distribution" in the Book on "Emerging Innovations in Wireless Networks and Broadband

Technologies", Editor: Prof. Naveen Chilamkurti, publisher: IGI-GLOBAL, 2015 (accepted).

BC7.   George Mastorakis, Nikos Trihas, Emmanouil Perakakis, Ioannis Kopanakis, Constandinos X. Mavromoustakis, "Mobile Customer Relationship Management: innovative Perspectives and Future trends in Tourism", in the Book on "Innovative management perspectives on confronting contemporary challenges", Publisher: Cambridge Scholars Publishing, Editors: Evangelos Tsoukatos, 2015.

BC8.   George Skourletopoulos, Rami Bahsoon, Constandinos X. Mavromoustakis, George Mastorakis, "The Technical Debt in Cloud Software Engineering: A Prediction-based and Quantification Approach", in the Book on "Resource Management of Mobile Cloud Computing Networks and Environments", IGI-GLOBAL, 2015.

BC9.   Constandinos X. Mavromoustakis, George Mastorakis, Athina Bourdena, Evangelos Pallis, D. Stratakis, E. Perakakis, I. Kopanakis, S. Papadakis, Z. D. Zaharis, C. Skeberis, T. D. Xenos, "A Social-oriented Mobile Cloud Scheme for Optimal Energy Conservation", in the Book on "Resource Management of Mobile Cloud Computing Networks and Environments", IGI-GLOBAL, 2015.

BC10.   Yiannos Kryftis, George Mastorakis, Constandinos X. Mavromoustakis, Jordi. M. Batalla, Athina Bourdena, Evangelos Pallis, "A Resource Prediction Engine for Efficient Multimedia Services Provision", in the Book on "Resource Management of Mobile Cloud Computing Networks and Environments", IGI-GLOBAL, 2015.

BC11.   Constandinos X. Mavromoustakis, George Mastorakis, Athina Bourdena, Evangelos Pallis, "Efficient Multimedia Services Provision over Cognitive Radio Networks using a Traffic-oriented Routing Scheme", to appear as chapter in Book, Multimedia Over Cognitive Radio Networks: Algorithms, Protocols, and Experiments, by Fei Hu to be published by Taylor & Francis LLC, CRC Press, 2015.

BC12.   Constandinos X. Mavromoustakis, Paraskevi Mousicou, Katerina Papanikolaou, George Mastorakis, Athina Bourdena, Evangelos Pallis, "Dynamic cloud resource migration for efficient 3D video processing in mobile computing environments", Book on Novel 3D Media, by Ahmet

Kondoz and Tasos Dagiuklas, Novel 3D Media Technologies, 2015, pp. 119-134, Springer International Publishing, January 2015.

BC13.   Seferin Mirtchev, Constandinos Mavromoustakis, Rossitza Goleva, Kiril Kassev, George Mastorakis, "Generic IP Network Traffic Management from Measurement through Analyses to Simulation" in the book "Resource Management in Mobile Computing Environments", pp. 167-192, 2014, Springer International Publishing.

BC14.   Dimitrios Stratakis, Andreas Miaoudakis, Evangelos Pallis, Traianos Yioultsis, Thomas Xenos, George Mastorakis, Constandinos Mavromoustakis, "Measurements on Modern Wireless Communication Technologies and Estimation of Human Exposure" **in the book** Resource Management in Mobile Computing Environments pp. 115-130, 2014, Springer International Publishing.

BC15.   Nikolaos Zotos, Charalampos Stergiopoulos, Konstantinos Anastasopoulos, Georgios Bogdos, Evangellos Pallis, Charalampos Skianis, George Mastorakis, Constandinos Mavromoustakis, "Unified Platform for M2M Virtual Object Interoperability" in the book Resource Management in Mobile Computing Environments, pp. 497-512, 2014, Springer International Publishing.

BC16.   Andreas Andreou, Constandinos Mavromoustakis, George Mastorakis, Athina Bourdena, Evangelos Pallis, "Adaptive Heuristic-Based P2P Network Connectivity and Configuration for Resource Availability" **in the book** Resource Management in Mobile Computing Environments, pp. 221-240, 2014, Springer International Publishing.

BC17.   Evangelos Markakis, Charalabos Skianis, Evangelos Pallis, George Mastorakis, Constandinos Mavromoustakis, Antonis Antonas, "Peer-to-Peer Constellations in an IMS-Enabled Network Architecture Based on Interactive Broadcasting" in the book Resource Management in Mobile Computing Environments, pp. 271-282, 2014, Springer International Publishing.

BC18.   Constandinos Mavromoustakis, Christos Dimitriou, George Mastorakis, Athina Bourdena, Evangelos Pallis, "Using Traffic Diversities for Scheduling Wireless Interfaces for Energy Harvesting in Wireless Devices", in the book Resource Management in Mobile Computing Environments pp.481-496, 2014, Springer International Publishing.

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BC19. George Mastorakis, Constandinos Mavromoustakis, Athina Bourdena, Evangelos Pallis, Giorgio Sismanidis, Dimitrios Stratakis, Stelios Papadakis, "Energy-Efficient Routing in Cognitive Radio Networks", in the book Resource Management in Mobile Computing Environments, pp.323-340, 2014, Springer International Publishing.

BC20. George Mastorakis, Evangelos Pallis, Constandinos Mavromoustakis, Athina Bourdena, "Efficient Resource Management Utilizing Content-Aware Multipath Routing", in the book Resource Management in Mobile Computing Environments, pp. 389-395, 2014, Springer International Publishing.

BC21. George Mastorakis, Spyros Panagiotakis, Kostas Kapetanakis, Giorgos Dagalakis, Constandinos Mavromoustakis, Athina Bourdena, Evangelos Pallis, "Energy and Resource Consumption Evaluation of Mobile Cognitive Radio Devices" in the book Resource Management in Mobile Computing Environments, pp. 359-388, 2014, Springer International Publishing.

BC22. Katerina Papanikolaou and Constandinos Mavromoustakis, Chapter 6: Resource and scheduling management in Cloud Computing Application Paradigm, appears in book "Cloud Computing: Methods and Practical Approaches", Eds. Prof. Zaigham Mahmood, published in Methods and Practical Approaches Series: Computer Communications and Networks by Springer International Publishing, May 13, 2013, ISBN 978-1-4471-5106-7, pp. 107-132.

Journal Articles – in print or submitted for publication

*   Journals (refereed)
**   Invited papers
***   Electronic Journal
****   Non-refereed Journals

Journal Publications - (Refereed)

*J. 1. Jordi Mongay Batalla, George Mastorakis and Constandinos X. Mavromoustakis and Jerzy Żurek, On cohabitating networking technologies with common wireless access for Home Automation Systems purposes, to appear in the Special Issue on Enabling Wireless Communication and Networking Technologies for the Internet of

Things, IEEE Wireless Communication magazine 2016 [Impact Factor 6.524, 2014].

*J. 2. Georgios Skourletopoulos, Constandinos X. Mavromoustakis, George Mastorakis, Jordi Mongay Batalla and John N. Sahalos, An Evaluation of Cloud-Based Mobile Services with Limited Capacity: A Linear Approach, accepted/to appear to the Soft Computing Journal, Springer/Berlin-Heidelberg, 2016 [Impact Factor 1.429, 2014].

*J. 3. Yiannos Kryftis, George Mastorakis, Constandinos X. Mavromoustakis, Jordi Mongay Batalla, Evangelos Pallis and Georgios Kormentzas, Efficient Entertainment Services Provision over a Novel Network Architecture, accepted/to appear to the IEEE Wireless Communication magazine, July 2015 [Impact Factor 6.524, 2014].

*J. 4. J. Mongay Batalla, M. Gajewski, W. Latoszek, P. Krawiec, C. Mavromoustakis, G. Mastorakis, ID-based service-oriented communications for unified ac-cess in IoT, to appear in Computer & Electrical Engineering Journal, Elsevier, accepted-to appear 2016 [Impact Factor 1.538, 2014].

*J. 5. Yiannos Kryftis, George Mastorakis, Constandinos X. Mavromoustakis, Jordi Mongay Batalla, Joel J. P. C. Rodrigues, Ciprian Dobre, Resource Usage Prediction Models for Optimal Multimedia Content Provision, IEEE Systems Journal, accepted-to appear (notified Dec. 2015) [Impact Factor 1.982; 2015].

*J. 6. Athina Bourdena, Constandinos X. Mavromoustakis, George Mastorakis, Joel J. P. C. Rodrigues, Ciprian Dobre, Using Socio-Spatial Context in Mobile Cloud Process Offloading for Energy Conservation in Wireless Devices, accepted in IEEE Transactions on Cloud Computing, to appear (Volume: to appear 2016, Issue: 99), ISSN: 2168-7161, DOI:10.1109/TCC.2015.2511736, Date of online – early view- publication: 31 December 2015, IEEE Communications Society, IEEE, [Impact Factor 4.382, 2014].

*J. 7. João Dias, Joel Rodrigues, Feng Xia, and Constandinos Mavromoustakis, "A Cooperative Watchdog System to Detect Misbehavior Nodes in Vehicular Delay-Tolerant Networks", accepted for publication in the IEEE Transactions on Industrial Electronics, February 2015 [Impact Factor 6.58, 2014], Volume 62, Number 1, January 2016, pp. 7929-7937.

*J. 8. Constandinos X. Mavromoustakis, Athina Bourdena, George Mastorakis, Evangelos Pallis, Georgios Kormentzas, and Christos D.

Dimitriou, "An Energy-Aware Scheme for Efficient Spectrum Utilization in a 5G Mobile Cognitive Radio Network Architecture", accepted for publication in the Special Issue on Energy Efficient 5G Wireless Technologies, Springer Telecommunication Systems Journal (accepted Sept. 2014)/ [Impact Factor 1.763], Vol. 59(1), 2015, pp. 63-75.

*J. 9.   O. Shiakallis, C. X. Mavromoustakis, G. Mastorakis, A. Bourdena, E. Pallis, "Traffic-based S-MAC: A novel Scheduling Mechanism for Optimized Throughput in Mobile Peer-to-Peer Systems", International Journal of Wireless Networks and Broadband Technologies, IGI-GLOBAL, 2015, pp. 62-80.

*J. 10. C. X. Mavromoustakis, G. Mastorakis, A. Bourdena, E. Pallis, "A Resource Intensive Traffic-Aware Scheme using Energy-Efficient Routing in Cognitive Radio Networks", Journal of Information Technology Research, IGI-Global, Volume 8 (1), 2015, pp. 1-24.

*J. 11. C. X. Mavromoustakis, G. Mastorakis, A. Bourdena, E. Pallis, "Energy Efficient Management using a Traffic-oriented Routing Scheme for Cognitive Radio Networks", International Journal of Network Management, Wiley, Volume 25, Issue 6, November/December 2015, pp. 418–434.

*J. 12. Athina Bourdena, Constandinos X. Mavromoustakis, George Kormantzas, Evangelos Pallis, George Mastorakis, Muneer Bani Yassein, "A Resource Intensive Traffic-Aware Scheme using Energy-efficient Routing in Cognitive Radio Networks", Future Generation Computer Systems Journal, Elsevier; Volume 39, October 2014, pp. 16-28 [Impact Factor: 1.864/2013; 5-Year Impact Factor: 2.033/2013].

*J. 13. Constandinos X. Mavromoustakis, George Mastorakis, Athina Bourdena, Evangelos Pallis, "Energy Efficient Resource Sharing using a Traffic-oriented Routing Scheme for Cognitive Radio Networks", IET Networks Journal, Volume 3, Number 1, March 2014 (IEEE DL), pp. 54-63. *[awarded the 2015 Premium Award for Best Paper in IET Networks Journal]*

*J. 14. George Mastorakis, Nikolaos Trihas, Constandinos X. Mavromoustakis, Emmanouil Perakakis and Ioannis Kopanakis, "A Cloud Computing Model for Efficient Marketing Planning in Tourism", Volume 4, Issue 3, International Journal of Online Marketing, IGI Global, 4(3), pp. 14-30, July-September 2014.

*J. 15.   Constandinos X. Mavromoustakis, Christos D. Dimitriou and George Mastorakis, "On the Real-Time Evaluation of Two-Level BTD Scheme for Energy Conservation in the Presence of Delay Sensitive Transmissions and Intermittent Connectivity in Wireless Devices", International Journal On Advances in Networks and Services, Vol. 6 number 3&4 2013, pp. 148-162.

*J. 16.   Constandinos X. Mavromoustakis and Helen D. Karatza, "Performance evaluation of opportunistic resource sharing scheme using socially-oriented outsourcing in wireless devices", The Computer Journal, Volume 56, Number 2, February 2013, pp. 184-197.

*J. 17.   Constandinos X. Mavromoustakis, "Mitigating file-sharing misbehavior with movement synchronization to increase end-to-end availability for delay sensitive streams in vehicular P2P devices", International Journal of Communication Systems, Wiley, Vol. 26(12), pp. 1599-1616, December 2013.

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(All Refereed)

C. 1. Georgios Skourletopoulos, Constandinos X. Mavromoustakis, George Mastorakis, Evangelos Pallis, Periklis Chatzimisios, Jordi Mongay Batalla, Towards the Evaluation of a Big Data-as-a-Service Model: A Decision Theoretic Approach, accepted to be presented at IEEE INFOCOM session on Big Data Sciences, Technologies and Applications (BDSTA 2016)- 2016 IEEE Infocom BDSTA Workshop, IEEE International Conference on Computer Communications, 10-15 April 2016, San Francisco, CA, USA.

C. 2. Georgios Skourletopoulos, Constandinos X. Mavromoustakis, George Mastorakis, Evangelos Pallis, Jordi Mongay Batalla and Georgios Kormentzas, Quantifying and Evaluating the Technical Debt on Mobile Cloud-Based Service Level, IEEE International Conference on Communications (IEEE ICC 2016 - Communication QoS, Reliability and Modeling Symposium/Main Track) - IEEE ICC 2016 - Communication QoS, Reliability and Modeling Symposium, main track, 23-27 May 2016, Kuala Lumpur, Malaysia, to appear.

C. 3. Catalin Gosman, Tudor Cornea, Ciprian Dobre, Constandinos X. Mavromoustakis and George Mastorakis, Secure model to share data in Intelligent Transportation Systems, 18th Mediterranean Electrotechnical conference – MELECON 2016, session: Internet of Things, Cloud-Based Systems and Big Data Analytics, April 18 - 20, 2016, Limassol, Cyprus, to appear.

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C. 58. Constandinos X. Mavromoustakis and Helen D. Karatza, "Performance Measures of Swarm based Active Network for Multiclass Packet Routing-A Simulation study". Proceedings of 2005 High Performance Computing & Simulation (HPC&S) Conference in conjunction with the 19th European Conference on Modelling and Simulation (ECMS 2005), June 1 - 4, 2005 Riga, Latvia, pp.794-801.

C. 59. Constandinos X. Mavromoustakis and Helen D. Karatza, "Bandwidth Clustering for Reliable and Prioritized Network Routing using Split Agent-based method". Proceedings of International Workshop on Assurance in Distributed Systems and Networks (ADSN 2005) in conjunction with the 24th International Conference on Distributed Computing Systems (ICDCS 2005) IEEE Computer Society on Distributed Processing, Columbus, Ohio, USA, June 2005, pp. 89-94.

C. 60. Constandinos X. Mavromoustakis and Helen D. Karatza, "Handling Delay Sensitive Contents using Adaptive Traffic-based Control

Method for Minimizing Energy Consumption in Wireless Devices". Proceedings of 38th Annual Simulation Symposium (ANSS), IEEE Computer Society Press, SCS, San Diego, CA, April 2-8, 2005, pp.295-302.

C. 61. Constandinos X. Mavromoustakis and Helen D. Karatza, "An on demand path marking and capacity reservation method using Split Agent". Proceedings of Workshop on Challenges of Large Applications in Distributed Environments (CLADE), in conjunction with the thirteenth IEEE International Symposium on High-Performance Distributed Computing (IEEE HPDC-13), Honolulu, Hawaii, 07 June, 2004, pp.128-138.

C. 62. Constandinos X. Mavromoustakis and Helen D. Karatza, "Adaptive Energy Conservation Model using Dynamic Caching for Wireless Devices". Proceedings of 37th Annual Simulation Symposium (ANSS), IEEE Computer Society Press, SCS, Arlington, Virginia, April 18-22, 2004, pp. 257-264.

C. 63. Constandinos X. Mavromoustakis and Helen D. Karatza, "On the extensibility properties and performance measures of circuit switched telecommunication networks, using agent-based distributed routing algorithm". Proceedings of 2003 International Symposium on Performance Evaluation of Computer and Telecommunication Systems-SPECTS, Montreal, Canada, July 20 - 24, 2003, pp. 240-247. (***The Best Paper Award nomination***)

C. 64. Harilaos G. Sandalidis, Kostas Mavromoustakis and Peter Stavroulakis, "Ant based decentralized routing using antipheromone principle", ANTS'2000 From Ant Colonies to Artificial ants: 2nd International Workshop on Ant Algorithms, Brussels, Belgium, 8-9 September, 2000 http://iridia.ulb.ac.be/~ants/IEEE-TEC-SI-Ants.html, pp. 45-52.

Posters and Demos

P.1 Constandinos X. Mavromoustakis and Konstantinos G. Zerfiridis, "Wireless mobility with the user-centered temporal capacity awareness for EC in wireless devices". 3rd International Workshop on Impact of

Low-Power design on Test and Reliability (LPonTR'10), in Conjunction with European Test Symposium 2010, Prague, Czech Republic, May 27th and 28th, 2010.

P.2 Marios Charalambous, Constandinos X. Mavromoustakis, George C. Violaris, "Graphical P2P Discrete Event Simulator for the Bittorrent Protocol with Mobility support", Seventh International Conference on Wireless and Mobile Communications ICWMC 2011, June 19-24, 2011– Luxembourg.

Technical Reports

TR [1].   Stefano Battista, Piotr Krawiec, Jordi Mongay Batalla, Mariusz Gajewski, Waldemar Latoszek, Viktor Sobiecki, Jarosław Bielecki, Stefano Battista, Constandinos X. Mavromoustakis, George Mastorakis, Yiannos Kryftis, Joachim Bruneau-Queyreix, Kritonas Christoforou, Antonis Kyprianou, D06/ Technical Report for the E!8111 DELTA Deliverable D06 entitled "Development of the Media Quality Meter (MQM)", Report for Eureka secretarial Scientific committee regarding the project 8111 DELTA-Network-Aware Delivery Clouds for User Centric Media Events, 15th of September 2015.

TR [2].   Viktor Sobiecki, Constandinos X. Mavromoustakis, George Mastorakis, Piotr Krawiec, Jordi Mongay Batalla, Mariusz Gajewski, Waldemar Latoszek, Jarosław Bielecki, Stefano Battista, Joachim Bruneau-Queyreix, Kritonas Christoforou, Antonis Kyprianou, D08/ Technical Report for the E!8111 DELTA Deliverable D07 entitled "Development of the Media Services Manager (MSM)", Report for Eureka secretarial Scientific committee regarding the project 8111 DELTA-Network-Aware Delivery Clouds for User Centric Media Events, September 2015.

TR [3].   J. Bruneau-Queyreix, Constandinos X. Mavromoustakis, George Mastorakis, Piotr Krawiec, Jordi Mongay Batalla, Mariusz Gajewski, Waldemar Latoszek, Viktor Sobiecki, Jarosław Bielecki, Stefano Battista, Joachim Bruneau-Queyreix, Kritonas Christoforou, Antonis Kyprianou, D07/ Technical Report for the E!8111 DELTA Deliverable D07 entitled "Development of the Enhanced Home Gateway (EHG)", Report for Eureka secretarial Scientific committee regarding the project 8111

DELTA-Network-Aware Delivery Clouds for User Centric Media Events, September 2015.

TR [4]. Piotr Krawiec, Jordi Mongay Batalla, Mariusz Gajewski, Waldemar Latoszek, Viktor Sobiecki, Jarosław Bielecki, Stefano Battista, Constandinos X. Mavromoustakis, George Mastorakis, Yiannos Kryftis, Joachim Bruneau-Queyreix, Kritonas Christoforou, Antonis Kyprianou, D05/ Technical Report for the E!8111 DELTA Deliverable D05 entitled "Development of the Media Advanced Streamer (MAS)", Report for Eureka secretarial Scientific committee regarding the project 8111 DELTA-Network-Aware Delivery Clouds for User Centric Media Events, September 2015.

TR [5]. Yiannos Kryftis, Constandinos X. Mavromoustakis, George Mastorakis, Piotr Krawiec, Jordi Mongay Batalla, Mariusz Gajewski, Waldemar Latoszek, Viktor Sobiecki, Jarosław Bielecki, Stefano Battista, Joachim Bruneau-Queyreix, Kritonas Christoforou, Antonis Kyprianou, D04/ Technical Report for the E!8111 DELTA Deliverable D04 entitled "Development of the Media Distribution Middleware (MDM)", Report for Eureka secretarial Scientific committee regarding the project 8111 DELTA-Network-Aware Delivery Clouds for User Centric Media Events, September 2015.

TR [6]. Wojciech Burakowski, Andrzej Wierzbicki, Henryk Gut, Constandinos X. Mavromoustakis, George Mastorakis, Mamadou Sidibe, Olimpiu Negru, Stefano Battista, Jarosław Bielecki, Kamil Dudek, Victor Sobiecki, Antonis Kyprianou, Kritonas Christoforou, D02:DELTA architecture definition and modules specification, Report for Eureka secretarial Scientific committee regarding the project 8111 DELTA-Network-Aware Delivery Clouds for User Centric Media Events.

TR [7]. Harilaos G. Sandalidis, Kostas Mavromoustakis and Peter Stavroulakis, "Ant based Decentralized Routing Scheme for Circuit Switching Communication Networks", TR-TUC 2001.

TR [8]. Constandinos X. Mavromoustakis and Helen D. Karatza, "Minimizing Energy Consumption using Adaptive Traffic-based Control Method for in Wireless Devices", TR-RCAUTH #21798.

Third party Editing and Book reviews:

BR1. Book on (edited) Ambient Assisted Living by Nuno M. Garcia and Joel Jose P.C. Rodrigues, Taylor and Francis publisher, submitted on 21st June 2015.

BR2. Book (authored) on Networked Control Systems: Mobile Strategy, Foundations and Implementations by Héctor Benítez-Pérez, A. Benítez-Pérez, Jorge Luis Ortega-Arjona, Oscar A. Esquivel-Flores, Springer International Publishing AG, submitted on 23rd October 2015.

Authored Patents in the research field

- Forecasting Middleware Scheduler (FMS) by Yiannos Kryftis, Constandinos X. Mavromoustakis, George Mastorakis and Jordi Mongay Batalla (submitted to EPO last August 2015).

Invited Talks, Seminars & Colloquia

- Invited lecture at the National Institute of Telecommunications NIT, Warsaw, Poland. Talk title: "Evaluation of Cloud-Based Mobile Services with Limited Capacity for IoT-aware EC» (Host: Jordi Mongay Batalla, Associate Professor, Head of Internet Architectures and Applications) on Friday, Feb. 26th, 2016 at 10 a.m. at the National Institute of Telecommunications campus, Warsaw, Poland. (funded by the STSM/ ICT Action IC1303 "Algorithms, Architectures and Platforms for Enhanced Living Environments" AAPELE action as a WG-3 chair and Leader of the prototype platform, 26/2/2016).

- Invited lecture at the Department of Informatics Engineering, Technological Educational Institute of Crete, Heraklion, Crete, Greece. Talk title: "Limitations for efficient process offload in MCC environments: can we reserve or conserve Energy?". (This invitation was funded by the STSM/ ICT Action IC1303 "Algorithms, Architectures and Platforms for Enhanced Living Environments" (AAPELE action as a WG-3 chair and Leader of the prototype platform, 24/7/2015).

- Invited lecture at the University of Wuerzburg, Germany, Computer Science Department. Talk title: "Interactive process Offload on MCC for Energy Conservation in Wireless Devices" (24/9/2014).

- Invited lecture at the University La Sapienza di Rome ("La Sapienza"), Italy, Computer Science Department, at the Sensor Networks and Embedded

Systems laboratory (SENSES lab). Talk title: "Context-oriented Opportunistic Cloud Offload Processing for Energy Conservation in Wireless Devices" (27/8/2014).

- Invited lecture at the Cyprus University of Technology at the Department of Electrical Engineering and Information Technologies (EEIT), 10/10/2014 for the first year students for the course "Explorations in EE and the Computer Science". Talk title: "Distributed Operating Systems: The Multimedia Era" (10/10/2014).

- Invited talk at the Department of Informatics, University Oxford, United Kingdom, 18/03/2014, for academic and research staff, Talk entitled: «Analysis and Capacity Planning through self-similarity traffic in Wireless devices» (18/3/2014).

- Invited talk during the MC meeting ICT COST Action IC1303 "Algorithms, Architectures and Platforms for Enhanced Living Environments" (AAPELE/WG-3 chair), University of Oxford, UK. Title of talk: "Self-similarity in traffic and its impact on resource sharing: Methodologies for Capacity planning and QoE provision" (17/3/2014).

- Invited lecture at the Cyprus University of Technology at the Department of Electrical Engineering and Information Technologies (EEIT), 10/11/2011 for the first year students for the course "Explorations in EE and the Computer Science". Talk title: "Distributed multimedia data: The role of Operating Systems" (08/11/2012).

- Invited talk at the ICT COST Action IC1105, 3D-ConTourNet - 3D Content Creation, Coding and Transmission over Future Media Networks (WG-3), University of Cagliari, Italy. Talk title: "Traffic manipulation impact on resource exchange: Methodologies for QoS and QoE provision" (13/9/2012).

- Invited talk at the Department of Computer Science at the University of Liverpool, Ashton Building. Talk title: "Resource Intensive Traffic-Aware Scheme for Cluster-based Energy Conservation in Wireless Devices" (27/6/2012).

- Invited talk at the Coventry University, Faculty of Engineering, Department of Computing and the Digital Environment. Talk title: "Mind thy traffic: A quantitative approach to forecast and monitor the traffic in social P2P systems" (26/1/2012).

- Invited lecture at the Cyprus University of Technology at the Department of Electrical Engineering and Information Technologies (EEIT), 10/11/2011 for

the first year students. Talk title: "Diffusion Platforms for distributed multimedia data: The role of Operating Systems" (10/11/2011).

- Invited talk at the COST Action IC0703 MC meeting "Data Traffic Monitoring and Analysis (TMA): theory, techniques, tools and applications for the future networks" at the School of Communication, Architecture, Arts and Information Technology, Lusophone University, Portugal. Talk title: "Fractal Similarities of MP2P streaming traffic: Can we share objects on-the-move?" (28/10/2011).

- Invited lecture as visiting faculty at the Coventry University, Faculty of Engineering, Department of Computing and the Digital Environment, 3/5/2011, Talk title: "MP2P deployments and their end-to-end consistency while sharing objects on-the-move" (3/5/2011).

- Invited lecture in the Nettitute Seminar Series at the Coventry University, Faculty of Engineering, Department of Computing and the Digital Environment, 6/5/2011, Talk title: "Peer-to-Peer / MP2P (Mobile Peer-to-Peer) and Opportunistic Systems, deployment and dynamic topology formation using real mobility patterns" (6/5/2011).

- Faculty of Electrical Engineering and Computing (FER) of the University of Zagreb, Unska 3, Zagreb, Croatia, Talk title: "The impact of the nature of the traffic on infrastructureless wireless networks" (January 2011).

- Kingston University London, Royal Borough of Kingston upon Thames, UK, Dept of Computer Science, Talk title: "Throughput considerations for delay sensitive streams using epidemic replication in clustered MP2P devices" (Sept. 2009).

- University of Ludwig-Maximilians-Universität (LMU) of Munich, Germany, Dept of Mathematics, Computer Science and Statistics, Talk title: "The impact of caching along with a newly introduced model for storage-capacity measurements for enabling energy conservation in asymmetrical wireless devices" (Sept. 2008).

- University of Athens/ National Technical University of Athens (NTUA) Athens-Greece, joint talk/ Dept of Computer Science/Electrical and Electronic Engineering, Talk title: "An optimal adaptive approach with behavioral promiscuous caching and the impact of autoconfiguration in power scheduling for asymmetrical wireless devices" (Sept. 2007).

- University of Cyprus (Nicosia), Dept of Computer Science, Talk title: "Time variant and dependant scheduling in distributed systems – Performance evaluation of dynamic environments" (Jan. 2006).

- University of Thessaly (Volos), Department of Computer & Communication Engineering, Talk title: "Epidemic Collaborative Geocast for Reliable Segmented File Sharing in Mobile Peer-to-Peer Devices" (Dec. 2005).

Other Talks, Seminars & Colloquia

- University of Nicosia, talk provided for all faculty members at the University of Nicosia with title: Doctoral Training/Process: Learning from Applicants. The talk took place on the Wednesday 16th of December, 2015 at 2.30pm, UNESCO Amphitheatre.

Other Scholarly Activities

Reviewer
- Reviewer for IEEE Transactions on Information Technology in Biomedicine, 2013 to-date.
- Reviewer for IEEE Transactions on Multimedia, 2013 to-date.
- Reviewer for ACM Transactions on Multimedia Computing, Communications and Applications, 2013 to-date.
- Reviewer for IEEE Transactions on Industrial Electronics, June 2014 to-date.
- Reviewer for IEEE Transactions on Vehicular Technology, 2007, 2008, 2009, 2010, 2011, 2012, 2013- to-date.
- Reviewer for IEEE Transactions on Dependable and Secure Computing, 2008, 2009, 2010, 2011, 2012, 2013- to-date.
- Reviewer: Journal Wireless Communications and Mobile Computing (WCMC), John Wiley & Sons, Dec. 2006, 2007, 2009, 2010, 2011, 2012, 2013- to-date.
- Reviewer: Soft Computing, Springer Journal, Oct. 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013- to-date.
- Reviewer: Journal of Systems and Software (JSS), Elsevier, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013- to-date.

- Reviewer: Journal of Simulation Modelling Practice and Theory, Elsevier, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013- to-date.
- Reviewer: International Journal of Communication Systems (IJCS), Wiley, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013- to-date.
- Reviewer: Journal of Simulation: Transactions of the Society for Modelling and Simulation International, Sage Publications, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013- to-date.
- Reviewer for Wireless and Personal Communication Journal, Kluwer Academic Publishers, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013- to-date.
- Reviewer for Computer Communications Journal, Elsevier, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013- to-date.
- Reviewer for Computer Networks Journal, Elsevier, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013.
- Reviewer for Ad-hoc Networks Journal, Elsevier, 2007, 2008, 2009, 2010, 2011, 2012, 2013- to-date.
- Reviewer for Computer Standards & Interfaces Journal, Elsevier, 2010, 2011, 2012, 2013- to-date.
- Reviewer for Peer-to-Peer Networking and Applications Journal, Elsevier, 2007, 2008, 2009, 2010, 2011, 2012, 2013- to-date.
- Reviewer for Information Sciences, Informatics and Computer Science Intelligent Systems Applications (INS) Elsevier, 2009, 2010, 2011, 2012, 2013- to-date.
- Reviewer for IEEE Communications Letters, 2008, 2009, 2010, 2011, 2012, 2013- to-date.
- Reviewer for the ACM Transactions on Modelling and Computer Simulation, ACM TOMACS, 2008, 2009, 2010, 2011, 2012, 2013.
- Reviewer for IEEE Internet Computing Journal 2008, 2009, 2010, 2011, 2012, 2013- to-date.

Memberships in editorial boards

- **Associate Editor/Associate Editor**: International Journal of Communication Systems (IJCS), Wiley since May 2009.
- **Editorial board member/Associate Editor**: Simulation Practice and Theory (SIMPRA) Journal, Elsevier (August 2010-November 2015).
- **Editorial board member/Associate Editor:** Transactions on Industrial Networks and Intelligent Systems, since Aug. 2014.
- **Editorial board member**: International Journal On Advances in Internet Technology, since January 2012.
- **Editorial board member**: International Journal On Advances in Software, since January 2012.
- **Editorial board member**: International Journal On Advances in Intelligent Systems, since February 2012.

Member of Scientific Boards

- Member of IEEE Communications Society (ComSoc) Radio Communications Committee (RCC).
- Member of IEEE TCDP - Technical Committee on Distributed Processing.
- Member of IEEE TCOS - Technical Committee on Operating Systems Applications and Environments.
- Member of IEEE Technical Committee on Information Infrastructure and Networking (TCIIN/IEEE).
- Member of IEEE TCSC - Technical Committee on Scalable Computing (former IEEE Computer Society Task Force on Cluster Computing).
- IEEE-SA Standards Board Member IEEE SCC42 WG2040 (Standard for Connected, Automated and Intelligent Vehicles: Overview and Architecture Working Group). This standard defines an architectural framework for connected, automated and intelligent vehicles/ since Oct. 2015.
- Member of IEEE TCWIS - Technical Committee on Wearable Information Systems.
- Member of the Management Committee of ICT COST Action IC1105, 3D-ConTourNet-3D Content Creation, Coding and Transmission over Future Media Networks which started on

[38]

May 2012/Formal representation of the Republic of Cyprus as a member of the Management Committee (End of Action: 21st May 2016).

- Member of the Management Committee of ICT COST Action IC1406 High-Performance Modelling and Simulation for Big Data Applications (cHiPSet), (End of Action: 1st Oct. 2017).
- Member of the Management Committee of COST Action IC0703 "Data Traffic Monitoring and Analysis (TMA): theory, techniques, tools and applications for the future networks" which started on March 2008/Formal representation of the Republic of Cyprus as a member of the Management Committee since December 2008 (End of Action: March 2012).

Member of Regional Boards

- Chair of C16 COMSOC chapter of the Cyprus section IEEE, May 2009.
- Elected active member (Officer) of IEEE/ R8 Cyprus section, Feb. 2008. Elected at the position of Secretary since February 2014 of the Cyprus section.

Chair or co-chair in International Conferences and/or Symposia

- Workshop co-Chair for IEEE ICT 2016 conference, http://ict-2016.org/, Thessaloniki, Greece, May 16-18, 2016.
- Local Organization Chair of the 12th IEEE International Wireless Communications and Mobile Computing Conference (IEEE IWCMC 2016) will be held on August 22nd -26th, IWCMC 2016, Coral Beach hotel, Paphos, Cyprus.
- Co-chair of the special session IEEE International Workshop on Big Data Sciences, Technologies, and Applications (IEEE BDSTA 2016) IEEE INFOCOM 2016, 10-15 April 2016, San Francisco, CA, USA.
- Publications co-Chair Chair of the 18th Mediterranean Electrotechnical Conference – MELECON 2016 Intelligent & Efficient Technologies & Services for the Citizen, April 18 – 20, 2016, Limassol, Cyprus.
- Local Organization Chair of the 10th International Wireless Communications and Mobile Computing Conference (IWCMC 2014) will be held on August 4-8, IWCMC 2014, Nicosia, Cyprus.

- Session Chair of the IEEE Globecom 2013, 2nd IEEE Workshop on Quality of Experience for Multimedia Communications (QoEMC2013), Atlanta, GA, USA, 09-13 December, 2013.

- Chair of the 2nd International Workshop on "High Performance Mobile Opportunistic Systems" HP-MOSys 2013, to be held in conjunction with The 16th ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM 2013), November 3-8 2013, Barcelona, Spain.

- Chair of the 1st International Workshop on "High Performance Mobile Opportunistic Systems" HP-MOSys 2012, to be held in conjunction with The 15th ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM 2012), October 21-25 2012, Paphos, Cyprus.

- Local Arrangements Chair and Local Organizing Chair of the 15th ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM 2012), October 21-25 2012, Paphos, Cyprus Island.

- Panel for special speech chair/moderator with title: "Advanced Features in Emerging Systems and Technologies", in the First International Conference on Data Analytics (DATA ANALYTICS 2012), September 23-28, 2012 - Barcelona, Spain.

- Session Chair of the 14th IEEE International Conference on High Performance Computing and Communications (HPCC-2012), 25-27 June 2012, Liverpool, UK.

- Steering Committee member and co-chair of the Steering Committee of the 2nd International Conference on Information & Communication Systems ICICS2012.

- Track co-chair and Program Committee member of the IEEE Internet of Things (iThings) 2011, Dalian, China, 19-22 October 2011, co-chairing Track 2: System Design, Modeling and Evaluation.

- Advisory chair of the Sixth International Multi-Conference on Computing in the Global Information Technology ICCGI 2011, June 19-24, 2011 – Luxembourg. Field of expertise: Knowledge/cognition management in heterogeneous systems.

- Track chair and Program Co-Chair of the 25th IEEE International Conference on Advanced Information Networking and Applications (AINA 2011), April 2011. Also co-chair for AINA 2011 track entitled:

"Distributed and Parallel Systems", which will be held at Biopolis, Singapore, 22-25 March 2011.

- Track chair on the 4th Mediterranean Conference on Information Systems, Track title: Mobility and resource management for high performance computing systems, MCIS 2010 in Tel-Aviv on 12-15/09/2010.

- Workshop on: "Location-based services (LBS) and applications" (LBSA) to be held in conjunction with ICPP'09 - The 2009 International Conference on Parallel Processing/IEEE proceedings. Involvement: co-Chair of the Workshop.

Organization of International Conferences and/or Symposia and Special Sessions

- Chair of the 18th Mediterranean Electrotechnical Conference – MELECON 2016 Intelligent & Efficient Technologies & Services for the Citizen, Track: Internet of Things, Cloud-Based Systems and Big Data Analytics, April 18 – 20, 2016, Limassol, Cyprus.

- Chair of the 2nd "A 5G Wireless Odyssey: 2020" Workshop co-located with the ISCC 2015 - The Twentieth IEEE Symposium on Computers and Communications, to be held in Larnaca, Cyprus, July 2015/ IEEE Xplore® Digital Library proceedings.

- Chair of the IEEE/IFIP Networking 2015 (4A* Conference) for the workshop "Advances on Media Streaming towards Cloud-to-Mobile 5G Networks" to be held in Toulouse, France, April 2015.

- Local Organization Chair of the 10th International Wireless Communications and Mobile Computing Conference (IWCMC 2014) will be held on August 4-8, IWCMC 2014, Nicosia, Cyprus.

- Chair of the 2nd International Workshop on "High Performance Mobile Opportunistic Systems" HP-MOSys 2013, to be held in conjunction with The 16th ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM 2013), November 3-8 2013, Barcelona, Spain.

- Organization of the 1st International Workshop on "High Performance Mobile Opportunistic Systems" HP-MOSys 2012, to be held in conjunction with The 15th ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM 2012) October 21-25 2012, Paphos, Cyprus.

- Special Session on Performance of Wireless and Mobile Networks in Workshop on "High Performance Mobile Opportunistic Systems" HP-MOSys 2012, to be held in conjunction with The 15th ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM 2012) October 21-25 2012, Paphos, Cyprus.

Member of Technical Program Committees (TPC)

- Technical Program Committee Member and Reviewer of the 2016 IEEE 83rd Vehicular Technology Conference: VTC2016-Spring 15–18 May 2016, Nanjing, China.
- Technical Program Committee Member and Reviewer of the IEEE International Conference on Communications ICC'16 CSSMA (IEEE ICC 2016 - Communications Software, Services and Multimedia Applications Symposium), main track symposium, 23-27 May 2016, Kuala Lumpur, Malaysia.
- Technical Program Committee Member and Reviewer of the IEEE International Conference on Communications ICC'16, ICC16 Workshop QoE-FI (IEEE ICC2016-Workshops: Workshop on Quality of Experience-based Management for Future Internet Applications and Services), 23-27 May 2016, Kuala Lumpur, Malaysia.
- Technical Program Committee Member and Reviewer of the 18th Mediterranean Electrotechnical Conference (IEEE MELECON) 2016 Intelligent & Efficient Technologies & Services for the Citizen, April 18 – 20, 2016, Limassol, Cyprus.
- Technical Program Committee Member and Reviewer of the 14th IEEE Wireless Communications and Networking Conference 3-6 April 2016, Doha, Qatar.
- Technical Program Committee Member and Reviewer of the IEEE ICC 2015 - Third International Workshop on Cloud Computing Systems, Networks, and Applications (CCSNA), London 8-10 June 2015.
- Technical Program Committee Member and Reviewer of the IEEE ICC 2015 - Workshop on Quality of Experience-based Management for Future Internet Applications and Services (QoE-FI), London 8-10 June 2015.

- Technical Program Committee Member and Reviewer of the IEEE ICC 2015- CSSMA (IEEE ICC 2015 - Communications Software, Services and Multimedia Applications Symposium), London 8-10 June 2015.

- Technical Program Committee Member and Reviewer of the IEEE ICC 2015- ICC'15 (01) SAC 9-SN (IEEE ICC 2015 - Social Networking), London 8-10 June 2015.

- Technical Program Committee Member and Reviewer of the 29th IEEE International Conference on Advanced Information Networking and Applications (IEEE AINA-2015) Gwangju, Korea, March 25-27, 2015.

- Technical Program Committee Member and Reviewer of the HP3C 2015-International Conference on High-Performance Compilation, Computing, and Communications, 23rd Sept. 2015, Washington, USA.

- Technical Program Committee Member and Reviewer of the IEEE WCNC -Wireless Communications and Networking Conference 09 to 12 March 2015, New Orleans, USA-Track 3- Mobile and Wireless Networks.

- Technical Program Committee Member and Reviewer of the ISCC 2015- Twentieth IEEE Symposium on Computers and Communications, Larnaca, Cyprus, 6-9 July 2015.

- Technical Program Committee Member and Reviewer of the DPNoC 2015 - 2nd International Workshop on the Design and Performance of Networks on Chip, Aug. 17, 2014 - Aug 20, 2014, Niagara Falls, Ontario, Canada.

- Technical Program Committee Member and Reviewer of the ICC'15 (10) CSSMA (IEEE ICC 2015 - Communications Software, Services and Multimedia Applications Symposium), London, UK, 8-12 June, 2015.

- Technical Program Committee Member and Reviewer of the ICC'15 (01) SAC 9-SN (IEEE ICC 2015 - Social Networking), London, UK, 8-12 June, 2015.

- Technical Program Committee Member and Reviewer of the International Workshop on Mobile Applications in conjunction with the 11th International Conference on Mobile Web Information Systems (MobiWIS 2015) and the 2nd International Conference on

[43]

Future Internet of Things and Cloud (FiCloud 2015), 27-29 August 2015, Barcelona, Spain.

- Technical Program Committee Member and Reviewer of the 10th International Conference IWCMC 2014, Cyprus.

- Technical Program Committee Member and Reviewer of the 10th International Conference on Mobile Web Information Systems (MobiWIS 2013), August 26-28 2013, Cyprus, http://mobiwis2013.cs.ucy.ac.cy. Special Track TPC member of Mobile Internet of Things.

- Technical Program Committee Member and Reviewer of the International Conference on Advances in Computing, Communications and Informatics (ICACCI-2013), August 22-25, 2013, Mysore, India.

- Technical Program Committee Member and Reviewer of the Eighth International Multi-Conference on Computing in the Global Information Technology, ICCGI 2013, July 21 - 26, 2013 - Nice, France.

- Technical Program Committee Member of the 12th IEEE Annual Mediterranean Ad Hoc Networking Workshop (MED-HOC-NET 2013), technically sponsored by IFIP TC6 (in progress) IEEE Communication Society, 24-26 June 2013, Ajaccio, Corsica, France.

- Technical Program Committee Member and Reviewer of the Fifth International Conference on Future Computational Technologies and Applications, FUTURE COMPUTING 2013, May 27 - June 1, 2013 - Valencia, Spain.

- Technical Program Committee Member and Reviewer of the Fifth International Conferences on Pervasive Patterns and Applications, PATTERNS 2013, May 27 - June 1, 2013 - Valencia, Spain.

- Technical Program Committee Member and Reviewer ICC'13 - IEEE ICC'13 - Workshop IIMC (IEEE International Conference on Communications 2013: IEEE ICC'13 - Workshop on Immersive & Interactive Multimedia Communications over the Future Internet), URL: http://www.ieee-icc.org/2013/, June 2013, Budapest, Hungary.

- Technical Program Committee Member and Reviewer of the fourth International Conference on Information and Communication Systems (ICICS 2013), Jordan.

- Technical Program Committee Member and Reviewer of the 1st International Workshop on "High Performance Mobile Opportunistic Systems" HP-MOSys 2012, to be held in conjunction with The 15th ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM 2012) October 21-25 2012, Paphos, Cyprus.

- Technical Program Committee Member and Reviewer of the International Conference Applied Computing 2012, 19-21 October 2012, Madrid, Spain.

- Technical Program Committee Member and Reviewer of the 15th ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM 2012), October 21-25 2012, Paphos, Cyprus Island.

- Technical Program Committee Member and Reviewer of the second International Conference on Mobile Services, Resources, and Users, MOBILITY 2012/ DataSys 2012, October 21 - 26, 2012 - Venice, Italy.

- Technical Program Committee Member and Reviewer of the International Conference on Computer Science 2012 (MIC-CS'12), on October 26-28 2012, in Kaula Lumpur, Malaysia.

- Technical Program Committee Member and Reviewer of the VTC2012-Fall, 2012 IEEE 76th Vehicular Technology Conference: VTC2012-Fall 3-6 September 2012, Québec City, Canada, IEEE Vehicular Technology Society.

- Technical Program Committee Member of the 8th IEEE International Wireless Communications & Mobile Computing Conference, IWCMC 2012/Workshop, "Cooperative and Cognitive Networks" Workshop, August 27-31, 2012, Grand Resort Hotel, Limassol, Cyprus.

- Technical Program Committee Member and Reviewer of the annual conference TEMU 2012 (International Conference on Telecommunications and Multimedia), July 30th-August 1st 2012, Heraklion, Crete, Greece.

- Technical Program Committee Member of the 11th IEEE Annual Mediterranean Ad Hoc Networking Workshop (MED-HOC-NET 2012), Ayia Napa, Cyprus, http://medhocnet.cs.ucy.ac.cy, Technically sponsored by IFIP TC6 (in progress) IEEE Communication Society, 19-21 June 2012, Cyprus.

- Technical Program Committee Member of the IEEE Second International Conference on Communications and Information Technology ICCIT 2012, June 26-28, 2012-Hammamet, Tunisia.

- Technical Program Committee Member of the IEEE/ACM International Conference on Collaboration Technologies and Systems (CTS 2012), http://cts2012.cisedu.info, May 21-25, 2012, The Westin Westminster Hotel Denver, Colorado, USA, in Cooperation with ACM, IEEE, and IFIP, Workshop 13-IoT Internet of Things, Machine to Machine and Smart Services Applications.

- Technical Program Committee Member of the International Conference on Computer and Information Technology, May 3-4, 2012, Okinawa, Japan.

- Technical Program Committee Member of the IEEE Wireless Communications and Networking Conference (WCNC 2012), Track 3 "Mobile and Wireless Networks" by IEEE Communications Society, 1-4 April 2012, Paris, France.

- Technical Program Committee Member of the 8th IEEE International Wireless Communications & Mobile Computing Conference, IWCMC 2012, August 27-31, 2012, Grand Resort Hotel, Limassol, Cyprus.

- Technical Program Committee Member of the 7th International Symposium on Wireless and Pervasive Computing, 3-5th July 2012, Dalian, China.

- Technical Program Committee Member and Reviewer of the Seventh International Multi-Conference on Computing in the Global Information Technology, ICCGI 2012, June 24-29, 2012 - Venice, Italy.

- Technical Program Committee Member and Reviewer of the IEEE Internet of Things (iThings) 2011, co-chairing Track 2: System Design, Modeling and Evaluation, Dalian, China, 19-22 October 2011.

- Technical Program Committee Member and Reviewer of the 3rd Third International Conference on Future Computational Technologies and Applications, FUTURE COMPUTING 2011, September 25-30, 2011 - Rome, Italy.

- Technical Program Committee Member and Reviewer of the 2nd Int. Conference on Emerging Intelligent Data and Web Technologies (EIDWT-2011) in conjunction with the 14th International Conference on Network-Based Information Systems (NBiS-2011), September 7 - 9, 2011, Polytechnic University of Tirana, Tirana, Albania.

- Technical Program Committee Member and Reviewer of the Sixth International Multi-Conference on Computing in the Global Information Technology ICCGI 2011, June 19-24, 2011 - Luxembourg.

- Technical Program Committee Member and Reviewer of the VTC2011-Spring, IEEE 73rd Vehicular Technology Conference, 15-18 May 2011 at the Budapest Marriott, Budapest, Hungary, IEEE Vehicular Technology Society.

- Technical Program Committee Member and Reviewer of the Third International Conference on Advances in P2P Systems AP2PS 2011, November 20-25, 2011-Lisbon, Portugal, under the NexTech 2011.

- Technical Program Committee Member and Reviewer of the first International Conference on Mobile Services, Resources, and Users, MOBILITY 2011, July 17-22, 2011 - Bournemouth, UK, in conjunction with the DataSys 2011, UK.

- Technical Program Committee Member and Reviewer of the 25th IEEE International Conference on Advanced Information Networking and Applications (AINA 2011), April 2011.

- Technical Program Committee Member and Reviewer of the International Workshop on Pervasive Media (PerMedia2010), held with the 7th International Conference on Ubiquitous Intelligence and Computing (UIC-10), Technically Sponsored by IEEE Task Force on Ubiquitous Intelligence and Computing, Xi'an, China, 26-29 October, 2010.

- Technical Program Committee Member and Reviewer of the seventh IEEE International Symposium on Wireless Communication Systems, (ISWCS) 2010, 19th until the 22nd of September 2010, Exhibition Centre of the University of York, York, United Kingdom.

- Technical Program Committee Member and Reviewer of the Second International Conference on Advances in P2P Systems AP2PS 2010, October 25-30, 2010-Florence, Italy.

- Technical Program Committee Member and Reviewer of the 24th IEEE International Conference on Advanced Information Networking and Applications (AINA 2010), Perth, Western Australia, 20-23 April 2010.

- Technical Program Committee Member, Track chair and Reviewer of the 4th MEDITERRANEAN CONFERENCE ON INFORMATION SYSTEMS, Track title: Mobility and resource management for high performance computing systems, MCIS 2010 in Tel-Aviv on 12-15/09/2010.

- Technical Program Committee Member and Reviewer of the Fifth International Multi-Conference on Computing in the Global Information Technology, ICCGI 2010, September 20-25, 2010 - Valencia, Spain.

- Technical Program Committee Member and Reviewer of the Seventh International Symposium on Wireless Communication Systems, York, The University of York, United Kingdom, 19th-22nd September, 2010.

- Technical Program Committee Member and Reviewer of the annual conference TEMU 2010 (International Conference on Telecommunications and Multimedia), 14-16 July 2010, Chania, Crete, Greece.

- Technical Program Committee Member and Reviewer of the Second International Conference on Resource Intensive Applications and Services, INTENSIVE 2010,March 7-13, 2010 - Cancun, Mexico.

- Technical Program Committee Member and Reviewer of the First International Conference on Future Computational Technologies

and Applications, FUTURE COMPUTING 2009, November 15-20, 2009 - Cancun, Mexico.

- Technical Program Committee Member and Reviewer of the First International Conferences on Pervasive Patterns and Applications, PATTERNS 2009, November 15-20, 2009 - Cancun, Mexico.

- Technical Program Committee Member and Reviewer of the Annual International Conference on Telecommunications & Multimedia (TEMU 2009), Ierapetra, Crete, Greece on Wednesday 16th - Friday 18th July, 2009.

- Technical Program Committee Member and Reviewer of the International Conference on Advances in P2P Systems,AP2PS 2009, October 11-16, 2009 - Sliema, Malta.

- Technical Program Committee Member and Reviewer of the Ninth CCGrid 2009 international conference /IEEE sponsored CCGrid ServP2P 2009/Workshop on Service-Oriented P2P Networks and Grid Systems.

- Technical Program Committee Member and Reviewer of the Fourth International Multi-Conference on Computing in the Global Information Technology (ICCGI 2009), August 25-31, 2009 - Cap Esterel, France.

- Technical Program Committee Member and Reviewer of the 41st Annual Simulation Symposium, Ottawa, Canada, Part of the 2008 Spring Simulation Multiconference, April, 2008, The Society for Modelling and Simulation International, (Proceedings will be published by the IEEE Computer Society).

- Technical Program Committee Member and Reviewer of the First International Workshop on Computational P2P Networks: Theory & Practice, ComP2P 2008, July 27-August 1, 2008 - Athens, Greece (Proceedings will be published by the IEEE Computer Society Press).

- Technical Program Committee Member and Reviewer of the Annual International Conference on Telecommunications & Multimedia (TEMU 2008), Ierapetra, Crete, Greece on Wednesday 16th - Friday 18th July, 2008.

Session Chair in International Conferences

- Session chair of the Internet of Things, Cloud-Based Systems and Big Data Analytics session of the 18th Mediterranean Electrotechnical Conference – MELECON 2016 Intelligent & Efficient Technologies & Services for the Citizen, April 18 – 20, 2016, Limassol, Cyprus.

- Session chair of Session of the IEEE ICC 2015 - Third International Workshop on Cloud Computing Systems, Networks, and Applications (CCSNA-10th), London 8-10 June 2015.

- Session chair of the 20th IEEE Symposium on Computers and Communication (ISCC), S25 Peer-to-Peer Computing, held in Larnaca, Cyprus, July 2015.

- Session chair of Session of the IEEE ICC 2015-Workshop on Quality of Experience-based Management for Future Internet Applications and Services (QoE-FI), London 8-10 June 2015.

- Session chair of Session I, QoE-aware transmissions and evaluation to the second IEEE Workshop on Quality of Experience for Multimedia Communications - QoEMC2013 (in conjunction with IEEE Globecom 2013), IEEE Communications Society, Atlanta, GA USA, 13 December, 2013.

- Session chair of track on P2P at the Fourth International Conference on Advances in P2P Systems (AP2PS 2012), September 23-28, 2012 - Barcelona, Spain.

- Session chair of track 5: Wireless and mobile technologies in the Seventh International Conference on Wireless and Mobile Communications, ICWMC 2011, June 19-24, 2011-Luxembourg, under the InfoWare 2011.

- Session chair of track 17 in ICWMC entitled: Wireless and Mobile Network Deployment I in the Sixth International Conference on Wireless and Mobile Communications, ICWMC 2010, September 20-25, 2010 - Valencia, Spain.

- Session chair of track 3 in the sixth International Workshop on Mobile Peer-to-Peer Computing (MP2P'10) in conjunction with the Eighth Annual IEEE International Conference on Pervasive Computing and Communications (PerCom 2010), Mannheim, Germany March 29-April 2, 2010.

- 40th Annual Simulation Symposium (ANSS), IEEE Computer Society, SCS, Norfolk, VA, March 25-28, 2007.
- International Workshop on Assurance in Distributed Systems and Networks (ADSN 2005) in conjunction with the 24th International Conference on Distributed Computing Systems IEEE Computer Society on Distributed Processing, Columbus, Ohio, USA, 2005.

Collaborations

- Dept. of Applied Informatics and Multimedia department at the Technological Educational Institute of Crete (TEIC), and director of the Research and Development of Telecommunication Systems Lab. "PASIPHAE".

  Collaborating academic person: Dr. Evangelos Pallis, Associate Professor, Director of the "PASIPHAE" Lab.

- Dept. of Applied Informatics and Multimedia department at the Technological Educational Institute of Crete (TEIC), and member of the Research and Development of Telecommunication Systems Lab. "PASIPHAE".

  Collaborating academic person: Dr. George Mastorakis Assistant Professor.

- Computer Science Department, (Computer Architecture and Communications Lab/PDSG (Parallel and Distributed Systems Group) as senior Research Assistant) at Aristotle University of Thessaloniki, Greece. Collaborating academic person: *Professor Helen Karatza*.

- Department of Marketing and Operations Management, University of Macedonia, Collaborating academic person: *Dr. Konstantinos Zerfiridis*.

- Department of Multimedia Engineering, Graduate School of Information Science and Technology, Osaka University, Japan, Collaborating academic person: *Dr. Lei Shu, Research Fellow, Ph.D*.

- Department of Computer Science and Biomedical Informatics of the University of Central Greece,
  Collaborating academic person: Dr. Harilaos G. Sandalidis, Lecturer

  Papasiopoulou 2-4,PC 35100, Galaneika - Lamia, Greece,
  Telephone/Fax: 22310 - 66900/ 22310 - 66939.

- The Informatics and Telematics Institute (ITI)/ General Secretarial of Research and Technology of Center for Research and Technology - Hellas (CERTH).

  Collaborating academic person: Dr. Yiannis Papadimitriou, Lecturer

  1st Km Thermi-Panorama Road, Thermi, Thessaloniki, GR-57001 Greece.

- College of Computer and Information Technology, Jordan University of Science and Technology,

  Collaborating academic person: Dr. Muneer Masadeh Bani Yassein, Vice Dean.

  P.O. Box 3030, Computer and Information Technology, Jordan University of Science and Technology, Irbid 22110, Jordan.

  Office phone: +962-2-7201000 Ext: 23661.

- Department of Informatics. Instituto de Telecomunicações University of Beira Interior, Portugal and University ITMO, St. Petersburg, Russia Collaborating academic person: Prof. Joel J. P. C. Rodrigues.

  E-mail: joeljr@ieee.org

- Director of PARADISE Research Laboratory, University of Ottawa, Canada,

  Collaborating academic person: Prof. Azzedine Boukerche,

  E-mail: boukerch@site.uottawa.ca.

- University Politehnica of Bucharest, Bucharest, Romania,

  Collaborating academic person: Dr. Ciprian Dobre,

  E-mail: ciprian.dobre@cs.pub.ro.

Consultancies/Technical expertise consultation//Research Proposal Evaluation Committee member

- Member of the Technical Experts for Internet of Things-IoT competition at Intel Corporation LLC/Registered No: 232-896-445 (www.intel.com) for the ChallengeME (https://challengeme.intel.com/), IoT competition, Oct. 2015.
- Member of the Technical Committee for High Level Expert Group for program hosted by HORIZON 2020 on the European Open Science Cloud (Jan. 2016- today).

[52]

- Member of the Technical Experts for programs HORIZON 2020 and related actions for "Information and Communication Technologies" as well as member of the Informal Advisory Group on "Information and Communication Technologies" Program "Horizon 2020", December 2013-present.

- EUREKA's High-Level Technical Experts responsible for the assessment of project applications submitted under the Eurostars Program (https://experts.eurostars-eureka.eu/) June 2012-today.

- High-Level Technical Experts member for the selection of projects that were accepted in the 3rd and 4th selection process of in the joint action of "excellence" and "Funding research proposals positively evaluated in the third and fourth announcement of ERC Grant Schemes» of the "EDUCATION AND LIFELONG LEARNING", General Secretariat for Research and Technology (GSRT), (November 2012).

- High-Level Technical Experts member for the Greek Ministry's industrial experts provided by the Ministry of Education, Lifelong Learning and Religious Affairs, Greece (Oct. 2012).

- CYPRUS BROADCASTING CORPORATION (CyBC) of the Republic of Cyprus. CyBC regional examination paper topics provider in the field of Computer Science (special topics exams). Formal examiner assigned for Computer science related public examinations, (Sept. 2009-May 2010).

- IT and Networking technology (upgrading existing infrastructure) consultant for VERDE EPE ltd. Greece for 3 years (2002-2005).

External Academic Committee membership in Electoral Boards

- Member of the electoral body for the assessment of Dr. Stavros Souravlas submitted on 13/08/2015, for the rank of the Assistant Professor, at the Department of Applied Informatics, Information Sciences, University of Macedonia (notified by Dept. Council 21/12/2015).

- Member of the substitute of the electoral body for the assessment for Dr. Harilaos G. Sandalidis for the rank of the Assistant Professor, University of Thessaly in the field of Optical Wireless Communications, University of Thessaly, Greece (notified by Dept. Council 2/4/2015).

- Member of the electoral body for the assessment of Dr. Athanasios Iosifidis for development in the post of associate professor in the field of "Wireless Communications with Focus Systems Mobile" (the current position Assistant Professor, at the Department of Electronic Engineering at the TEI of Thessaloniki, since October 2013, (notified by Dept. Council 2/4/2015).

- Member of the electoral body for the assessment for the permanent tenure-track recruitment of Dr. George Mastorakis for faculty member promotion at the rank of Associate Professor in the field of "Marketing and New Technologies", at the Department of Business Administration and Economics Technological Educational Institute of Crete, February 2015 (notified by Dept. Council 22/2/2015).

- Member of the electoral body for the assessment of the progress and report provision for the permanent tenure-track recruitment of Dr. Angelos Giakoumi for the permanent tenure-track recruitment for Technological Applications in the field of "Microcomputer applications", at the Department of Electrical Eng., Faculty of Technological Applications, Technological Educational Institute of Thessaloniki, February 2015 (notified by Dept. Council 2/2/2015).

- Judgment of the progress and report provision for the permanent tenure-track recruitment of Dr. Constantinos Evangelidis in the rank of Associate Professor in the field of "Network-centric Information Systems and Geographic databases", at the Department of Civil Engineering and Surveying Engineering and Geomatics, January 2014 (notified by Dept. Council 19/12/2013).

- Judgment of the progress and report provision for the permanent tenure-track recruitment of Dr. George Mastorakis in the field "Marketing and new Technologies", at the Department of Marketing and Advertisment of the Faculty of Technological Applications Technological Educational Institute of Crete, expected Oct. 2013 (2/12/2013).

- Electoral board member for the position of Assistant Prof. for Dr. Pericles Chatzimisios in the field of "Networks and communications", at the Department of Informatics of the Faculty of Technological Applications Technological Educational Institute of Thessaloniki, Sept. 2013 (2/12/2013).

- Electoral board member for the candidate Dr. Athanasios Iosifidis for the open position of Assistant Professor in the field of "Wireless Communications with emphasis on mobile telephone system", in the Electronic Engineering dept. Technological Educational Institute of Thessaloniki, Oct. 2013.

- Electoral board member for the position of Assistant Prof. for Dr. Euclid Keramopoulos in the field of "Development of Web Applications", at the Department of Informatics of the Faculty of Technological Applications Technological Educational Institute of Thessaloniki, Sept. 2013.

- Judgment of the progress and report provision for the permanent tenure-track recruitment of Dr. Euclid Keramopoulos in the subject "Development of Web Applications", at the Department of Informatics of the Faculty of Technological Applications Technological Educational Institute of Thessaloniki, July 2012.

Experience

Administrative
(projects managed, committees served etc)

- Horizon 2020, "nExt generation eMergencY commuNicatiOnS" Proposal acronym: EMYNOS, Call: H2020-DRS-2014, Topic: DRS-19-2014, Type of action: RIA, Proposal number: 653762. Grant amount: 4,13 M Euros.). Start-date: 1-10-2015 to 30-4-2018.

- Participation as coordinator in the National Project co-funded by the European Union, for Patents and Intellectual Property Rights Protection ΚΑΙΝΟΤΟΜΙΑ/ΕΥΡΕΣΙ/1114/05. Ranked 1st in the evaluation process, Approved: 2-Feb-2016. Duration: 31 Months (Feb 2016-Oct. 2018). Role: Coordinator.

- Eurostars project 8111 DELTA-Network-Aware Delivery Clouds for User Centric Media Events. DELTA project aims at developing an innovative and ready-to-market solution that synergistically combines Networked Media and Telecommunications technologies with Cloud Computing assets into a unified digital ecosystem, enabling users to exploit OTT and IT/Comms services with maximum possible cloud and network-centric parameterized experience. Approved: 02-Sep-2013, Call > 10, Duration: 23 Months, Amount: 1,812,400€. (*Ranked upon evaluation 1st in ICT domain and 5th over all existing domains out of 529 proposals*).

- Large-scale Integrating Project (IP), Network Functions as-a-Service over Virtualised Infrastructures (T-NOVA), ICT Call 11 (FP7-ICT-2013-11) - Objective ICT-2013.1.1 call: Future Networks 2014-2017, Overall Budget: 6.743M.

- Participation in National Greek Secretariat Project ΑΡΧΙΜΗΔΗΣ III – Enhancing Research Groups and encouraging Team members, Τίτλος υποέργου: Βέλτιστη ΕκμετάΛΛευση των διαθΕσιμων πόΡων και Ενοποιημένη διαχείριση των χρηστών/υπηρεσιών σε υποδομές επίγειας ψηΦιακής διαδραστικής ευρυ-εκπΟμπής, για τηΝ παροχή οπτικοακουσΤικού περιεχομένου εγγυημένης ποιότΗτας, σε πολίτεΣ "λιγότερο ανεπτυγμένων" περιοχών. (acronym: ΒΕΛΛΕΡΕΦΟΝΤΗΣ). Financing entity: EdLL Operational Program "Education and Lifelong Learning". Duration: 2013-2015 (Roles: Research Collaborator and local Partner Coordinator), Amount: 12.000€.

- Oct. 2002- Dec 2005, Research committee of Aristotle University of Thessaloniki under the European Union Project Participation "Heraclites" 2002-2005 grant #21798, Hellenic Ministry of National Education and Religious Affairs' Framework "Operational Program for Education and Initial Vocational Training (O.P. Education)", Participation: Project Manager.

- Nov. 2002- Nov. 2005, System Administrator of the Department of Informatics, Aristotle University of Thessalonica.

- Oct. 2004- Dec 2004, EPEAEK project for redesigning the teaching material for undergraduate courses, funded by Research committee of Aristotle University of Thessalonica. Grant number #21537 (1,100 Euros), Hellenic Ministry of National Education and Religious Affairs' Framework "Operational Program for Education and Initial Vocational Training (O.P. Education)", Research committee of Aristotle University of Thessalonica (participant).

- Oct. 2003- Dec 2004, From scratch redesign and reallocation of "*Modular distance learning Program*" offered by the University of Lincoln (European Studies of Art and Sciences) located in Thessalonica (primary participant).

Advisory
(students supervised, theses directed etc)

PostDoctoral Research Associates

Dr. Athina Bourdena, University of Nicosia, Cyprus
Research associate working in the DELTA Eurostars project
Feb.2014- today.

Dr. Evangelos Markakis, affiliation: University of the Aegean, Greece
and University of Nicosia, Cyprus. Research associate working in the:
(i)   Large-scale Integrating Project (IP), Network Functions as-a-Service over Virtualised Infrastructures (T-NOVA);
(ii)   Project ΑΡΧΙΜΗΔΗΣ III – Enhancing Research Groups and encouraging Team members, Title of Work Package: Interactive Broadband access methodologies (acronym: ΒΕΛΛΕΡΕΦΟΝΤΗΣ).

PhD supervisions

PhD student: Mr. George Skourletopoulos (main-supervisor) at the Department of Computer Science at the University of Nicosia (Oct. 2014-today).

PhD student: Mr. Radu Ioan Ciobanu (external co-supervisor with Ciprian Dobre), started 2013-today at the University Politehnica Bucharest.

PhD student: Mr. João Alfredo Dias (external co-supervisor with Joel J.P. Rodrigues), started 2012-today at the Department of Informatics of the University of Beira Interior, Portugal, started 2012-today.

Past:
PhD student: Mrs. Athina Bourdena, (as a substitute member of the supervisory team) at the University of the Aegean, Greece, Department of Information & Communication Systems Engineering (May 2011-Dec. 2013).

PhD student: Mr. Fotis Loukos (co-supervisor) at the Aristotle University of Thessaloniki-Greece, Department of Informatics (2009-2011).

- External Committee members for 2 students from Institutions abroad (2013-today).

MSc supervisions

MSc student: Mrs. Zeinab Jaradat at the Department of Computer Science, Jordan University of Science and Technology, Irbid,

Jordan (within the under development TEMPUS collaboration framework).
Title: New Load Balancing Algorithm for LEACH Protocol (F-VCH LEACH), 2012 (resulted 1 publication).

MSc student: Mr. Yiannis Georgakis, UoM, Greece.
Title: Swarm-based resource allocation using epoch-like restrictions, 2010.

T-Year Student Selected Component offered by St George's University of London (SGUL) Medical School at the University of Nicosia

- o "Recent Advances in Remote Assisted Medical Operations: A network-centric approach" by medical student Mr. Loizos Panayioti, SGUL Medical School at University of Nicosia, *July 2nd, 2015.*

BSc undergraduate thesis supervisions

- *Final Year Projects/Theses -as fulfilment requirement for the Degree of Bachelor of Science in Computer Science- supervised and completed at the University of Nicosia as follows:*

  - *Final Year Projects/Theses supervised and completed at the University of Nicosia as follows:*

    - *"Anniversaries' enhanced reminder for users' contacts", by student: Mrs. Chrystalla Miltiadous, July 3, 2015.*
      Note: Application is planned to be uploaded on the Google App store (G-Play).

    - *"Birthdate application diary", by student: Mr. Savvas Karasavvas, June 5, 2014.*
      Note: Application uploaded on the Google App store (G-Play).

    - *"TRAFFIC-BASED S-MAC", by student: Mr. Odysseas Shiakallis, 7th May 2014.*

    - *"Dynamic-content webpage development for cysoccer", by student: Mr. Nicos Nicolaou, 26th March 2014.*

    - *"Dynamic-content webpage development for live Soccer streaming: A Peer-to-Peer approach", by student: Mr. Kyriakos Alexandrou, 26th February 2014.*

- *"Cyprus Monopoly", by student: Mr. Epiktitos Danos, 26th February 2014.*

- *"Greeklish converter on-line software in Java language", by student: Ms. Pantelitsa Mavrovounioti, June 5, 2013.*

- *"Cloud Energy Conservation methodology for efficient offloading", by student: Mr. Andreas Andreou, June 2013. (resulted 2 IEEE/ACM refereed publications, Mr. Andreou is now a Cambridge Univ. graduate)*

- *"TRIVIAL PURSUIT: JAVA-BASED APPLICATION", by student: Mr. Yiannakis Neoptolemou, May 2013.*

- *"Dynamic resource migration based on temporal and capacity-aware policy for efficient resource sharing", by student: Ms. Paraskevi Mousicou, 26th May 2013. (resulted 1 ACM/IEEE refereed publication and 1 Book Chapter)*

- *"On the Simulated Performance Evaluation of the new Rate-Adaptive ALOHA scheme in Wireless Ad Hoc Networks", by student: Mr. Demetris Posnakides, 11th April 2013. (resulted 1 refereed publication)*

- *"Battery Saver - an android platform-based implementation of battery saver application", student: Mr. Andreas Eracleous, Nov. 2012.*
  Note: Application uploaded on the Google App store (G-Play).

- *"Configuring a Wireless Local Area Network IEEE 802.11g connectivity using hybrid devices with High Speed and Download Rate", student: Mr. Onoufrios Orphanides, June 6, 2012.*

- *"NET-EYE: Develop a configuration mechanism for the Wi-Fi 802.11 draft N/FOSCAM camera", student: Mr. Avgerinos Podinas, May 18, 2012.*

- *"Minesweeper: online-based implementation of minesweeper game", student: Mr. Fanos Theodosiou, May 21, 2012.*

[59]

- *"Synchronizing remote content using standard platform independent application", student: Mr. Orman Mohammadi, January 24, 2012.*

- *"Performance evaluation of the bittorrent protocol and implementation of a hybridized model with partial mobility characteristics", student: Mr. George Violaris, May 2011.*

- *"Scrabble-net: a network-based implementation of scrabble game using OOP Java Libraries", student: Mrs. Maria Charalambous, May 2011.*

- *"Implementation of a clinic for children program using functional characteristics", student: Mrs. Fani Theofanous, May 2011.*

- *"Development and Implementation of an Android-based Web Meeting Scheduler", student: Mrs. Charalambia Mouzouri , May 2011.*

- *"Measuring the signal strength and detect the availability using WI-VIS open source code for a WLAN IEEE 802.11g specifications and performance using hybrid devices", student: Mr. Andreas Stylianou, June 2010.*

- *"Development of a Web Based Meeting Scheduler", student: Mr. Marios Polyviou, June 2010.*

- *"Mapping real time performance of a local area network according to 802.11n IEEE specifications", student: Mr. Mounzer Al Akhras, April 2010.*

- *"Configuring a spoofing and packet filtering tool for WLAN IEEE 802.11g specifications and connectivity using hybrid devices", student: Mrs. Constantia Constandinou, April 2010.*

- *"A middleware interface approach for an educational kindergarten on-line application", student: Mrs Panayiota Costea, Dec. 2008.*

- *"Storage Area Network Configuration in a Wireless LAN 802.11b/g using Hybrid Devices", student: Mr. Alexandros Kritikopoulos, Nov.2008.*

- *"Connectivity and measurements in WLANs using Distributed Operation Utilities for Hybrid Devices", student: Mr. Christos Ploutarchou, Nov.2008.*

- *"Configuring a WLAN IEEE 802.11g specifications and connectivity using hybrid devices", student: Mr. Ioannis Yiangou, Nov.2008.*

- *"Configuring a Wireless Local Area Network IEEE 802.11g connectivity using mapped traffic and monitoring", student: Mr. Ploutarchou Christos, June 2008.*

- *"LAN Emulation and Configuration", student: Mr. Kyriacos Zeniou, April 2007.*

- *"Tic Tac Toe – Network game implementation using Java", student: Mr. Christos Demetriou, June 2007.*

- *Current FYP (Final Year Projects) students: 2 students.*

- Supervised four (4) undergraduate students during the period 2002-2004, at the University of Lincoln (European Studies of Art and Sciences), *year 2002 (1 student), 2003 (1 student), 2004 (2 students).*

- Main/primary undergraduate advisor for more than 40 students at Department of Informatics, Aristotle University of Thessalonica during the period 2002-2006.

Teaching
(seminars designed, courses taught)

- Oct 2007 -present
Undergraduate teaching at the department of Computer Science at the University of Nicosia
Courses teaching/taught:

  - COMP-112 Software Development Lab I (Fall 2010/1st year)

  - COMP-113,Programming principles II/Programming II former course COMP-255, C++ Language Programming/Programming II (2nd year)

  - COMP-212, Object Oriented Programming former course COMP-455, Object Oriented Programming (4th year)

- COMP-358, Networks and data Communication (3rd year)

- COMP-470, Internet Technologies (4th year)

- Dec 2009-May 2010
  Undergraduate course designed and taught at the *Cyprus University of Technology* at the Department of Electrical Engineering and Information Technologies (EEIT).
  Systems Programming (ΗΜΠ 238) (2nd year/level course), Spring 2010.

- Aug 2009-Dec 2009
  Undergraduate course designed and taught at the *Cyprus University of Technology* at the Department of Electrical Engineering and Information Technologies (EEIT).
  Operating Systems (ΗΜΠ 333) (3rd year/level course), Fall 2009.

- Oct 2006 -Sept. 2007
  Undergraduate teaching at the department of Computer Science, Intercollege.
  Courses taught:
    - COMP-255, C++ Language Programming (2nd year)
    - COMP-358, Networks and data Communication (3rd year)
    - COMP-455, Object Oriented Programming (4th year)

- Oct. 2001- Feb. 2005 (Oct. 2001- Feb. 2002 as Part-time and Feb. 2002- Feb. 2005 as Full time Lecturer)
  Undergraduate teaching at the department of Computer Science, University of Lincoln (European Studies of Art and Sciences) in the following modules:
    - Distributed Systems Architecture (Layer 3, Year 4).

    - Computer Communication Networks (Layer2, Year 3).

    - Distributed Data Communications (Layer3, Year 4).

    - Programming in the small (Layer2, Year 3).

    - Programming in the large (Layer2, Year 3).

    - Systems Requirements and Specification (Layer3, Year 4).

    - Computer Systems Architecture (Layer 3, Year 4).

    - Information Systems Management and Strategy (BSc Information Systems Layer2, Year 3).

    - Aspects of Artificial Intelligence (Layer 3, Year 4).

- Employability and Carrier Development (Layer 3, Year 4).

- Information Systems Issues (BSc Information Systems Layer 2, Year 3).

- Computing Group Project (Layer2, Year 3).

(Note:9 hours/month each module, 45 min/period-hour).

Courses modified and designed/ Curriculum contributions

- Main Curriculum MSc concentration 2/Master Degree (2nd Cycle "Mobile Systems") designer hosting the following courses:
  - COURSE CODE/NAME: COMP-525 Mobile Computing (MSc level course/10 ECTS)/ Designed.
  - COURSE CODE/NAME: COMP-528 Mobile Platforms and Software Development (MSc level course/10 ECTS)/ Designed.
  - COURSE CODE/NAME: COMP- 531   Mobile and Wireless Networks (MSc level course/10 ECTS)/ Designed.
  - COURSE CODE/NAME: COMP-596 Project in Mobile Systems (MSc level course/4 ECTS).

- December 2013

  Postgraduate course designed at the *University of Nicosia for the Master's degree on Digital Currencies*.
  - COMP-533 Digital Currencies in Motion (MSc Major Required).

- Dec 2009

  Undergraduate course designed at the *Cyprus University of Technology* at the Department of Electrical Engineering and Information Technologies (EEIT). Systems Programming (ΗΜΠ 238) (2nd year/level course), Spring 2010.

- Aug 2009

  Undergraduate course designed at the *Cyprus University of Technology* at the Department of Electrical Engineering and Information Technologies (EEIT). Operating Systems (ΗΜΠ 333) (3rd year/level course), Fall 2009.

- Oct 2008-today

  Undergraduate courses designed or modified at the department of Computer Science and MIS, at the University of Nicosia
  - COURSE CODE/NAME: COMP-513 COMP-513 Computer Networks and Web Technologies (MSc level course/10 ECTS)/ Designed.
  - COURSE CODE/NAME: COMP-475 Distributed systems-concepts and architectures (4th year/level course)/ Designed.

- COURSE CODE/NAME: MIS-735 Applied Communication Networks and Systems (*Postgraduate level*) / Designed.
- COURSE CODE/NAME: MIS-325 Applied Data Communications (3rd year/level course)/ Designed.
- COURSE CODE/NAME: COMP-212, Object Oriented Programming/Redesigned-modified.
- COURSE CODE/NAME: COMP-458, Network Protocols/ Redesigned-modified.
- COURSE CODE/NAME: COMP-470 Internet Technologies/from scratch Redesigned-modified.
- COURSE CODE/NAME: COMP-513 COMP-513 Computer Networks and Web Technologies (MSc level course/10 ECTS)/ Designed.
- COURSE CODE/NAME: COMP-525 Mobile Computing (MSc level course/10 ECTS)/ Designed.
- COURSE CODE/NAME: COMP-528 Mobile Platforms and Software Development (MSc level course/10 ECTS)/ Designed.
- COURSE CODE/NAME: COMP- 531 Mobile and Wireless Networks (MSc level course/10 ECTS)/ Designed.
- COURSE CODE/NAME: COMP-596 Project in Mobile Systems (MSc level course/4 ECTS)/ Designed.
- COMP-531 Internet and Web Technologies for the MSc program in Digital Currencies Spring 2014/ Credits (ECTS):10/Designed.

- Course Leader in the following courses
  (5 courses in CS pathway, 3 courses MSc in CS and 2 courses in MIS (1 postgraduate course))
  - COMP-358, Networks and Data Communication, Credits (ECTS):6
  - COMP-470, Internet Technologies, Credits (ECTS):6
  - COMP-415, Distributed systems-concepts and architectures, Credits (ECTS):6
  - COMP-458, Network Protocols, Credits (ECTS):6
  - COMP-613 Computer Networks and Web Technologies (MSc CS)/ Credits (ECTS):10
  - COMP-626 Mobile Computing (MSc CS)/ Credits (ECTS):10

- COMP-627 Network programming, monitoring and performance (MSc CS)/ Credits (ECTS):10
- COMP-531 Internet and Web Technologies for the MSc program in Digital Currencies Spring 2014/ Credits (ECTS):10
- COMP-212, Object Oriented Programming, Credits (ECTS):6
- COURSE CODE/NAME: MIS-735 Applied Communication Networks and Systems (Postgraduate level) Credits (ECTS):7,5
- COURSE CODE/NAME: MIS-325 Applied Data Communications (3rd year/level course) Credits (ECTS):6.

Software/developed source code/skills and libraries

- Model and development of a real time traffic-based scheduling scheme using the MICA2 sensors equipped with the MTS310 sensor boards. MICA2 sensors were programmed using the ADCEC scheduling scheme and were equipped with the a low power processor and a radio module operating at 868/916 MHz enabling data transmission at 38.4Kbits/s with an outdoor range of maximum 70 meters- taking into consideration fading obstacles in-between for enabling high level manipulation using modularities for clearer signal strength. *TinyOS* operating system is programmed by using the supported nesC language, in order to host effectively the implementation where the adaptive self-tuned sleep and wake schemes were developed.
- Developed a standalone scalable application in Java/1.6 utilizing a mobility scenario implementation using a graphical P2P discrete event-driven simulator for the Bittorrent protocol. The framework uses a structured-based overlay for the static peers, and unstructured for mobile peers. Many parameters were introduced for the diffusion process and the seeding techniques that are utilized by the Bittorrent simulation framework. By using the Object Oriented design paradigm the proposed simulation framework is developed to be highly scalable being capable to potentially host new components. The simulation tool can encompass a scenario with partial mobility characteristics in a Peer-tracker and a Peer-to-Peer communication enhancement scheme. The

proposed simulation framework can evaluate effectively the scalable mobility and can estimate the availability of requested resources of each individual user (both mobile and static). Finally the created simulation framework and the designed modules take into consideration the active intercluster peer participation and evaluate a degree of participation while resources are being exchanged (resulted 2 publications).

- Developed a standalone simulator in C++ for testing different multicast routing algorithms.

- Develop a stand-alone simulator in Java 2.0 for simulating client's system to allow any Bittorrent application on-the-move to use a meta-file and communicate with the tracker. The autonomous simulator has the capability to support dynamically changing environment in discrete and continuous time.

- Extended the NS-2 simulation package in C++, by introducing new communication classes for scheduling. These extensions provide higher level functionalities for simulations of distributed scheduling algorithms.

- Develop an infrastructure-based system for controlling the user's authentication and identification as well as do traffic shaping the requested data. Designed for the "Open Learning of the University of Lincoln" as a Framework of the distance Learning and Education (part of the Project "Modular distance learning Program") at the University of Lincoln, UK. Contribution: Founder of the e-Learning platform and infrastructure installed.

- Develop an infrastructure-based system for controlling the user's authentication and identification for the Independent Study Option (ISO). The system handles the student's interaction and uses the on-line synchronous notification (using the sms Gateway alert system) to directly inform the instructor about any enabled changes.

- Development of Web enabled infrastructure to support remote access to course material (real time or not/synchronous and asynchronous) in the Graduate program of the Mediterranean Institute of Management & International

Operations, Cyprus Productivity Center (CPC), at the Ministry of Labour and Social Insurance, Nicosia, Cyprus.

Research

Main research contributions and achievements/ Research Experience

The key research contributions[*] is concentrated into the following discrete parts.

- *Development of the Bandwidth Clustering scheme for dynamically changing topologies- Efficient, adaptive and reliable resource allocation.* This first part explores techniques to enable dynamic and on demand resource allocation and route scheduling for delay sensitive data packets.

- *Development and implementation of an Adaptive traffic-based control method for energy conservation in wireless devices.* This second part involves a novel technique for handling delay sensitive contents, mitigating at the same time the energy consumption in wireless networks. The energy conservation is achieved using a designed algorithm that implements asynchronous inactivity periods in Mobile Ad-hoc Networks and aims to enhance the performance of service delivery with the minimum energy consumed.

- *Development of a scheme based on Epidemic Placement Policy to ensure reliability in Mobile Peer-to-Peer (MP2P) devices using different mobility frameworks (Hybrid Mobile System (HIS) and Hybrid Mobile Infostation System (HyMIS)).* This part of research proposes an approach based on the advantages of epidemic selective resource placement through mobile Infostations (hybridized Infostations). The proposed epidemic placement policy combines the strengths of both proactive multicast group establishment and hybrid Infostation concept, facing the flooding problem and enabling end to end reliability.

- The development, implementation and the comparative evaluation with other similar models, as well as real-time comparisons through emulators, of a process-offloading scheme that is based on a mobile opportunistic cloud computing approach. According to the proposed

[*] See the attached citation/referenced by others list.

approach, each mobile device with access to interactive -delay sensitive- multimedia content (i.e. online gaming with processing power requirements) exploits several network-centric parameters, by using Nano-Mobile Data Centers (NMDC) for an interactive, collaborative and real-time manipulation of the available resources. The communication and the social context is used by the mobile nodes with other communication related parameters, towards achieving the efficient execution of the offloading process in order to support adequate Quality of Service (QoS). The proposed scheme allows interactive mobile users to efficiently exploit their resources, while the processes that cannot be locally handled (by each device), are effectively offloaded. The scheme aims at prolonging the lifetime of each mobile device and maximizing the efficiency in running context interactive applications.

- *Development of a Forecasting Middleware Scheduler (FMS)* (also applied to EPO as a patent/2015) which is a software component that performs all the necessary activities to set up the best allocation of resources, in terms of efficiency, including dynamic and continuous processing for all multimedia streaming sessions, as well as predictive processing for all potential upcoming multimedia streaming sessions. More specifically, it coordinates, under a predictive mode, the optimal exploitation of the resources that are available at each domain. According to the input of Monitoring Services about the available resources, the FMS gives the instructions to the Allocator for enhancing users' QoE-based delivery requests. In addition, the FMS manages all the deployed delivery solutions, optimize the allocation of resources and take the decision for media streaming.

Software projects developed

1. From scratch redesign and reallocation of "*Modular distance learning Program/Founder of the e-Learning platform*" offered by the University of Lincoln (European Studies of Art and Sciences) located in Thessalonica (primary participant).   Oct. 2003- Dec 2004

2.	"Voice Transcriber: Development of a tool in Java Language, for Voice transcription, including an editor for Voice Signals destined for handicapped users". Worked with Professor Vasilios Digalakis, Technical University of Crete, Department of Electronic & Computer Engineer. **_Worked as Primary Developer/Programmer_** _Remark: The developed software tool comprises of more than 30 classes and more than 12,000 lines of Java code._	June 1999-April 2000
3.	"RS232, Infrared Communication with AVR microcontroller". Worked with Professor Apostolos Dollas, Technical University of Crete, Department of Electronic & Computer Engineer. **_Worked as Primary Developer/Programmer_**	May 1999-Dec.1999
4.	"Complete System for measuring of temperature and humidity". Worked with Professor Manolis Antonidakis, Technical University of Crete, Department of Electronic & Computer Engineer. **_Worked as cooperative/participant Programmer_**	June 1998-May 1999

University and public service

- Chair of the Computer Science Department's Postgraduate Programmes Committee at the University of Nicosia (DPPC) (June 2013-today).

- Member of the University of Nicosia Post-Graduate Body (Oct. 2013-today).

- Member of the _Research Ethics Committee of the_ University of Nicosia and School of Sciences representative to the _Research Ethics Committee (June 2012-Oct. 2014)._

- Member of the University of Nicosia Quality Assurance (QA) and Standards Committee (since 2007 until 2013). Contribution to the Code of Practice which comprises of a basic reference document for establishing and maintaining the offered Educational Quality in University of Nicosia. The first draft hosts the practical definitions of _Quality Control, Quality Audit, Quality Enhancement, and Academic Standards_.

- Contribution into the following Quality Assurance Policy frameworks (2007-2011):
  - Specific Principles: Safeguarding of academic standards (i.e. achievement of learning outcomes of each course/module will be assessed in a sound, secure and appropriate manner).
  - Assuring and enhancing academic quality- Managing quality and standards.

SCIENTOMETRICS

Hetero-citations:561, Years:12 Cites/year:18.25, Cites/paper:4.82/3.0/0, Cites/author:237.96, Cites/author/year:8.49, Papers/author:44.92, Authors/paper:2.83, h-index:12 (37%), g-index:14 (41%), hc-index:14,hI-index:4.80,hI-norm:7, hI,annual:0.25, AWCR:155.95, AW-index:12.49, AWCRpA:63.25, e-index:6.56, hm-index:8.92,"2015-03-03"

Query date: 3/3/2015

INDICATIVE SCIENTIFIC CITATIONS (REFERENCED BY OTHERS)

Total Citations: 784 (according to PP/SCI)

1. Chenn-Jung Huang, Hung-Yen Shen, Yi-Ta Chuang, An adaptive bandwidth reservation scheme for 4G cellular networks using flexible 2-tier cell structure, Appears in Expert Systems with Applications, Volume 37, Issue 9, September 2010, Pages 6414-6420, (citation for J14).

2. Ching-Wen Chen, Chuan-Chi Weng, Yu-Chen Kuo, Signal strength based routing for power saving in mobile ad hoc networks, Journal of Systems and Software, Volume 83, Issue 8, August 2010, Pages 1373-1386, (citation for J11 and C18).

3. Ching-Wen Chen and Chuan-Chi Weng, Bandwidth-based routing protocols in mobile ad hoc networks, The Journal of Supercomputing, Volume 50, Number 3 / December, 2009, (citation for J12 and C18).

4. Mursalin Akon, Mohammad Towhidul Islam, Xuemin(Sherman) Shen and Ajit Singh, Book Chapter, Exchanging Peers to Establish P2P Networks, Handbook of Peer-to-Peer Networking, DOI: 10.1007/978-0-387-09751-0_6, (citation for C10).

5. Muddassar Farooq and Gianni A. Di Caro, Routing Protocols for Next-Generation Networks Inspired by Collective Behaviors of Insect Societies: An Overview Natural Computing Series, Swarm Intelligence, Book Chapter, DOI: 10.1007/978-3-540-74089-6_4, (citation for J15 and J16).

6. Tao Xie and Xiao Qin, An Energy-Delay Tunable Task Allocation Strategy for Collaborative Applications in Networked Embedded Systems, Appeared in IEEE TRANSACTIONS ON COMPUTERS, TC-0431-1106.R1 1, Digital Object Identifier 10.1109/TC.2007.70809, 14 pages, (citation for C19).

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7. Jose Aguilar, Miguel A. Labrador, A General Combinatorial Ant System-based Distributed Routing Algorithm for Communication Networks, Latin America Transactions, IEEE (IEEE Transactions revised), Volume 5, Issue 8, Dec. 2007 Page(s):616 – 625, (citation for J14).

8. Ponmozhi K., Rajeshb C., Reader R. "Applying P2P in MANETs for resource sharing", Proc. of the 2009 International Conference on Control Automation, Communication and Energy Conservation, INCACEC 2009 (citation for J8).

9. Lee W., Woo J., Kim H., Chung, J. "Design and implementation of computer & network resource optimization for linking high-performance computing resources", Proc. of the 2009 NCM-5th International Joint Conference on INC, IMS, and IDC 2009, NCM 2009 - 5th International Joint Conference on Int. Conf. on Networked Computing, Int. Conf. on Advanced Information Management and Service, and Int. Conf. on Digital Content, Multimedia Technology and its Applications; Seoul; 25 August 2009 through 27 August 2009; Pages 489-493 (citation for C12 and C13).

10. J.K. Buhagiar, C.J. Debono, "Exploiting Adaptive Window Techniques to Reduce TCP Congestion in Mobile Peer Networks," Proc. of the 2009 IEEE Wireless Communications and Networking Conference (WCNC 2009), ISBN: 978-1-4244-2948-6, April 2009 (citation for C10).

11. Habib Rostami, Jafar Habibi, Emad Livani, Semantic partitioning of peer-to-peer search space, Computer Communications, Elsevier, Volume 32 (4), 2009, pp. 619-633 (citation for J7).

12. Lim, K.K., Ong, Y.-S., Lim, M.-H., Chen, X., Agarwal, A., Hybrid ant colony algorithms for path planning in sparse graphs, Soft Computing, Volume 12, Issue 10, August 2008, Pages 981-994, (citation for J16).

13. (Book Chapter XII, Book: "Reflexing Interfaces: The Complex Co-evolution of Information Technology Ecosystems"), Di Caro G., Ducatelle F. and Gambardella L. M. (2008). Theory and practice of Ant Colony Optimization for routing in dynamic telecommunications networks. In: Reflecting Interfaces: The Complex Coevolution of Information Technology Ecosystems, eds. N. Sala, F. Orsucci, Idea Group Inc., April 2008, (citation for J16).

14. Mursalin Akon, Xuemin Shen, Sagar Naik, Ajit Singh, Qian Zhang, An inexpensive unstructured platform for wireless mobile peer-to-peer networks, Journal of Peer-to-Peer Networking and Applications,

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16. Qinghua Zheng and Yiqin Yu, A mini-bandwidth guaranteed and differentiated service supporting bandwidth allocation algorithm for Multimedia Group Communication, Computer Communications, Volume 30, Issue 2, 15 January 2007, pp. 465-478 (citation for J10).

17. Huang, C.-J., Cheng, C.-L., Chuang, Y.-T., Jang, J.-S.R., Admission control schemes for proportional differentiated services enabled internet servers using machine learning techniques, Expert Systems with Applications, Elsevier, Vol. 31, Issue 3, October 2006, pp. 458-471 (citation for J14).

18. Parvinder singh, Sathans Suhag, Krishan Kumar, Brijesh Kumar, "Analysis of Power Control Scheme, Routing Protocol and Link Scheduling in Mobile Ad hoc Network", IJCSNS International Journal of Computer Science and Network Security, VOL.7 No.8, August 2007, pp. 267-273 (citation for C7).

19. Jin, X., Liu, X., Wang, Z., "Routing for multi-constrained path problem with imprecise state information", The 7th International Conference on Advanced Communication Technology, ICACT 2005, Volume 1, 2005, Article number 1461843, pp. 445-449 (citation for J10).

20. Jose Aguilar, Miguel Labrador, A Fault Tolerant Distributed Routing Algorithm Based on Combinatorial Ant Systems, Lecture Notes in Computer Science, Volume 3644, Sep 2005, Pages 514-523 (citation for J14).

21. Farooq Muddassar, From the Wisdom of the Hive to Intelligent Routing in Telecommunication Networks: A Step towards Intelligent Network Management through Natural Engineering, PhD Thesis, Dortmund, 2006, pages 28,210/227 (citation for J10 and J16).

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23. Gianni Di Caro, Ant Colony Optimization and its Application to Adaptive Routing in Telecommunication Networks, IRIDIA, Institut de

Recherches Interdisciplinaires et de D´eveloppements en Intelligence Artificielle, Dissertation preesentee en vue de l'obtention du grade de Docteur en Sciences Appliquees Bruxelles, September 2004 (citation for J15 and J16).

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25. Dong, J., Song, R., Neural network predication for network routing, Proceedings of the Seventh IASTED International Conference on Advances in Computer Science and Technology 2006, Pages 245-250 Software Engineering Institute, East China Normal University, No. 3663, Zhongshan North Road, Shanghai, 200062, China (citation for J11).

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28. Xue Shihua, Wu Chenwen, A layer model analysis system on network performance evaluation, Neijiang Computer and Information Science department Sichuan Neijiang & Lanzhou Jiaotong University Electrical engineering institute Gansu Lanzhou, Academic notes, Lanzhou University journal: Natural sciences version, 41, 2005, pp 91-95 (citation for J15).

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Note: All hetero-citations' list can be provided upon request.