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Curriculum Vitae - Βιογραφικό Σημείωμα

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1. Education (Σπουδές)

- 1999-2002: Ph.D. in Electrical and Computer Engineering, University of Maryland College Park, MD, USA.
Ph.D. dissertation title: “Resource allocation issues in broadband wireless networks with OFDM signaling”.
Ph.D. advisor: Leandros Tassiulas.
Major / Minor: Communications and Signal Processing / Control Systems.
- 1997-1999: M.Sc. in Electrical and Computer Engineering, University of Maryland College Park, MD, USA.
M.Sc. thesis title: “Handover and channel allocation mechanisms in mobile satellite networks”.
M.Sc. advisor: Leandros Tassiulas.
- 1992-1997: B.Sc. Diploma in Electrical and Computer Engineering, National Technical University of Athens, Greece.
B.Sc. thesis title: “Analysis and implementation of ray-tracing algorithms for mobile satellite communications channels”.
B.Sc. thesis advisor: Philip Constantinou.

2. Distinctions and awards (Διακρίσεις και βραβεία)

2.1 Best paper awards (Βραβεία καλύτερης δημοσίευσης)

- **Best paper award** for paper [C105]; IEEE ECOFEC workshop (in conjunction with IEEE INFOCOM), 2019.
- **Best paper award** for paper [C87]; ACM HotPost workshop (in conjunction with ACM Mobihoc), 2016.
- **Best paper award** for paper [C59]; ACM WINTech workshop (in conjunction with ACM Mobicom), 2013.
- **Best demo award** for demo [D4]; TridentCom conference, 2012.

2.2 Monetary awards (Χρηματικά έπαθλα και διακρίσεις)

- **Single-investigator European Research Council (ERC) runner-up award**: co-funded by Greece and the European Union (European Social Fund) through the Operational Program "Education and lifelong learning (NCRF) 2007-2013, for the project "RECITAL: Resource Management for Self-coordinated Autonomic Wireless Networks", €690K, 2012-2015.
- **Samsung Global Research Outreach (GRO) Innovations program award** for the project "NETSTAT: Network inference and optimization with statistical physics methods", 2012-2013, €200K, co-PI (with L. Tassiulas).
- **AUEB Reinforcement of research grant** for the project “Optimization of computation and data collection in mobile environments”, 2015-2017, €10K, PI.
- **State Scholarships Foundation (IKY) grant** for bi-lateral collaboration project with Deutsche Telekom Labs, Germany on Cloud computing, €10K, 2012-2013.
- **Marie Curie International Re-Integration Grant (IRG)** for the project "SAINT-W: Secure Advanced Integrated Layer Design of Wireless Networks", Funded by European Commission, €80K, 9/2005-9/2007.

2.3 Academic performance awards (Βραβεία ακαδημαϊκής επίδοσης)

- **Visiting Scholarship**, Department of Electrical Engineering, University of Washington, Seattle, USA. Collaboration with Prof. R. Poovendran, 7/2005-8/2005.
- **Graduate Research Assistantship (GRA)**, Institute for Systems Research (ISR), University of Maryland, College Park, 8/1999 – 1/2003.
- **Graduate Fellowship**, Department of Electrical and Computer Engineering, University of Maryland, College Park, 8/1997 – 6/1999.
- **Fulbright Fellowship** by the Fulbright Foundation for Graduate Studies in USA, 8/1997 – 12/2002.
- **Distinguished academic performance monetary award**, State Scholarships Foundation (IKY), 1996, 1997.

2.4 Service distinctions (Διακρίσεις για υπηρεσία στην επιστημονική κοινότητα)

- **Senior Member of IEEE**, 2012-present.
- **Distinguished TPC member**, IEEE INFOCOM 2019 Technical Program Committee.

2.5 Mentions in the media (Αναφορές στα media)

- Together with 11 other Professors from AUEB, was included in the top researchers according to the study “Data for updated science-wide author databases of standardized citation indicators”, 2020, April 2021. Relevant posts: <https://www.naftemporiki.gr/story/1708774/opa-dodeka-epistimones-tou-stous-korufaiious-pagkosmios>, <https://www.in.gr/2021/03/31/greece/dodeka-kathigites-tou-oikonomikou-panepistimiou-stous-koryfaiious-epistimones-tou-kosmou/>
- Mention of the NUDGE project: <https://energypress.gr/news/panyropaiki-ereyna-analysis-tis-energeiakis-symperiforas-katanaloton>
- <https://www.aueb.gr/el/opanews/pos-tha-epireasoyme-tin-energeiaki-symperifora-ton-katanaloton>

2.6 Other (Άλλα)

- **NSF student travel grant** to participate as author/presenter in INFOCOM 2001 and 2002.
- **IEEE Communications Society student travel grant**, GLOBECOM 1999.
- **Best presentation award**, ECE Department Graduate Seminar Series, University of Maryland, College Park, Fall 1999.

3. Professional Experience (Επαγγελματική εμπειρία)

3.1 Academic and Research (Ακαδημαϊκή και ερευνητική εμπειρία)

- **Professor**: Department of Informatics, Athens University of Economics and Business, Athens, Greece, 9/2021-present;
- **Associate Professor**: Department of Informatics, Athens University of Economics and Business, Athens, Greece, 10/2016-9/2021;
- **Assistant Professor**: Department of Informatics, Athens University of Economics and Business, Athens, Greece, 2/2013-10/2016;
- **Affiliated Faculty**: ATHENA Research Center, Information Management Systems Institute (IMSI), Athens, Greece, 5/2019-present;

- **Assistant Professor:** Department of Electrical and Computer Engineering, University of Thessaly, Volos, Greece, 11/2010-2/2013.
- **Lecturer and Adjunct Lecturer:** Department of Electrical and Computer Engineering, University of Thessaly, Volos, Greece, 2005-2010 and 2003-2005 respectively.
- **Affiliated Faculty:** Centre for Research and Technology Hellas (CERTH), Informatics and Telematics Institute, 2005-2015.
- **Visiting Scholar:** University of Washington, Seattle, WA, 6/2005-8/2005. Collaboration on intrusion detection and jamming attack modeling for wireless networks.
- **Affiliated Faculty:** Centre for Research and Technology Thessaly (CERETETH), Volos, Greece, 2009-2011.
- **Affiliated Faculty:** Institute for Accelerating Systems and Applications (IASA), National and Kapodestrian University of Athens (NKUA), Athens, Greece, 2009-2011.

3.2. Industry experience in Europe and USA (Εμπειρία στη βιομηχανία σε Ευρώπη και ΗΠΑ)

- **Visiting Research Scientist, Yahoo! Research Labs, Barcelona, 9/2012 - 12/2012.** Research collaboration on topics related to online social networks, Q&A systems e.g. Yahoo! Answers, web crawling, social network influence.
- **Research Intern, Aperto Networks Inc, Milpitas, CA, 5/2000-8/2000.** Participation in research project on design and analysis of cross-layer adaptation algorithms (PHY-layer modulation, FEC coding rate, power control and link-layer ARQ protocol, packet size) for the Aperto Fixed Broadband Wireless link. Performance evaluation of algorithms with OPNET simulation tool. These algorithms were part of the technology *OptimaLink*® that was incorporated into products PacketWave of Aperto (subscriber unit, Base Station unit) for high performance fixed wireless broadband access.
- **Research Intern, HRL Laboratories, Malibu, CA, 5/1999- 8/1999.** Research in DARPA project “*Small Unit Operation – Deployable and Adaptive Ad-hoc Mobile Networks (SUO-DAMAN)*”. Design of broadcast routing protocols for control information dissemination in wireless ad-hoc networks. Performance evaluation in terms of bandwidth consumption, delay and robustness to topology changes.
- **Research Intern, Hughes Network Systems (HNS), Germantown, MD, 5/1998-8/1998.** Research in project “*Intermediate Circular Orbit (ICO) Satellite System*” of ICO Global Communications Ltd. Design of handover algorithms for Mobile Satellite System ICO. Simulation in C++ of dynamic operation of the ICO satellite system (satellites, terrestrial and airborne user terminals, wireless link, handover, channel allocation, call blocking). Design and simulation of channel allocation algorithms for improved call blocking probability.

3.3. Other related industry experience (Άλλη σχετική εμπειρία στην βιομηχανία)

- **Intern, Hellenic Telecommunications organization (OTE), Athens, 6/1997-8/1997.** Study of ISDN and packet switched network HELLASPAC.
- **Intern, Public Power Corporation (DEH), Athens, 4/1997-6/1997 and 7/1995-10/1995.** Participation in joint project with OTE for development of a wireless communication network between power production, distribution and management centers.
- **Intern, Petrola Hellas Refinery, Athens, 6/1996-9/1996.** Optical fiber network design for the refinery.

4. Publications (Επιστημονικές δημοσιεύσεις)

45 journal publications, 119 conference publications.

4.1. Overview of Publication Record (Συνοπτική εικόνα δημοσιεύσεων)

- 45 journal publications have appeared in:
 - IEEE/ACM Transactions on Networking (4),
 - IEEE Journal on Selected Areas in Communications (4),
 - IEEE Transactions on Wireless Communications (4),
 - IEEE Transactions on Communications (2),
 - IEEE Transactions on Control of Networked Systems (1)
 - IEEE Transactions on Automatic Control (1),
 - IEEE Transactions on Mobile Computing (5),
 - IEEE Transactions on Smart Grid (1)
 - IEEE Transactions on Vehicular Technology (1),
 - IEEE Communications Magazine (3),
 - IEEE Network Magazine (1),
 - IEEE Wireless Communications Magazine (1),
 - IEEE Communications Surveys (1),
 - IEEE Access (2),
 - IEEE Communications Letters (1),
 - ACM SIGMOBILE Mobile Computing and Communications Review (1),
 - ACM Transactions on Information and System Security (1),
 - Springer Knowledge and Information Systems (KAIS) Journal (1)
 - Elsevier Performance Evaluation (1),
 - Elsevier Computer Networks (3),
 - Elsevier Computer Communications (3),
 - Elsevier Ad hoc Networks (1),
 - Elsevier International Journal on Human-Computer Studies (1).
 - EURASIP Journal on Signal Processing (1).

- 119 conference publications have appeared in:
 - IEEE INFOCOM (13),
 - ACM Mobihoc (3),
 - IEEE WOWMOM (2),
 - ACM ECML/PKDD (2),
 - ACM CIKM (1),
 - IEEE IWQoS (3),
 - IEEE SECON (1),
 - ACM E-Energy (2),
 - IFIP Networking (2),
 - IFIP PERFORMANCE (2),
 - IEEE MDM (1),
 - IEEE WiOPT (5),

- IEEE GLOBECOM (6),
 - IEEE ICC (6),
 - ACM Mobihoc HotPost workshop (1),
 - IEEE WCNC (4),
 - IEEE CLOUDNET (1),
 - ACM VALUETOOLS (1),
 - IEEE PIMRC (1),
 - IEEE SmartGridComm (4),
 - IEEE WiOPT WinMEE workshop (2),
 - IEEE WiOPT RAWNET workshop (2),
 - ACM WinTECH workshop (2),
 - ACM Mobicom WISE Workshop (1),
 - NetGCOOP (4),
- and other conferences and workshops.

4.2. Publications per research area (Δημοσιεύσεις ανά ερευνητική περιοχή)

- **Applications of online learning**
Journal papers:
Conference papers: C115, C114
- **Caching of video content in wireless networks**
Journal papers: J41, J40, J38
Conference papers: C112, C108, C107, C100, C89, C82, C74
- **Edge computing**
Journal papers: J44
Conference papers: C99, C83
- **Mobile Crowdsensing systems**
Journal papers: J37
Conference papers: C103, C97, C96, C86, C85, C81, C76, C73, C54
- **Community networks and shared network infrastructures**
Journal papers: J39
Conference papers: C110, C106, C105, C95, C94
- **Recommender systems**
Journal papers: J43
Conference papers: C117, C98, C77, C43
- **Online advertising**
Journal papers: -
Conference papers: C102, C92, C91, C88, C87
- **Machine Learning and Artificial Intelligence applications**
Journal papers: -
Conference papers: C118, C111, C109, C104, C79, C38
- **Smart energy grid**
Journal papers: J45, J34, J33, J22, J18, J16
Conference papers: C116, C69, C68, C67, C45, C41
- **Cloud computing resource allocation and network economics considerations**

Journal papers: J42, J31, J23

Conference papers: C84, C80, C78, C71, C70, C56, C42

- **Resource management in wireline networks**

Journal papers: J36, J35

Conference papers: C61, C36

- **Wireless network resource allocation and optimization**

Journal papers: J29, J28, J15, J11, J10, J7, J6, J5, J4

Conference papers: C113, C93, C90, C75, C72, C64, C63, C62, C60, C55, C47, C46, C32, C26, C23, C18, C17, C13, C11, C10, C9, C8, C7, C6

- **Cross-layer resource allocation in multi-antenna communication systems**

Journal papers: J19, J8, J3, J2

Conference papers: C29, C27, C21, C16, C15, C14, C12

- **Network economics for spectrum resource allocation**

Journal papers: J30, J17, J14

Conference papers: C119, C57, C52, C51, C34

- **Wireless network attack modeling and detection**

Journal papers: J32, J12, J9

Conference papers: C50, C40, C30, C22, C20

- **Sensor networks**

Journal papers: J27, J20

Conference papers: C35, C33, C31, C19

- **Peer-to-peer networks**

Journal papers: J25, J13

Conference papers: C28, C25, C24

- **Wireless network experimentation**

Journal papers: J26, J24, J21

Conference papers: C101, C66, C65, C59, C58, C53, C49, C48, C44, C39, C37,

- **Mobile satellite communication systems**

Journal papers: J1

Conference papers: C5, C4, C3, C2, C1

4.3. Research impact (Επίδραση ερευνητικού έργου)

4.3.1. Citations (Αναφορές)

- 5,040 citations, as of end of mid Sept 2021 (source: Google Scholar).
- Google Scholar Profile: http://scholar.google.gr/citations?user=Bq_GqylAAAAJ&hl=e/
- h-index = 32

4.3.2. Impact and diffusion of research to industry (Επίδραση και διάχυση έρευνας στη βιομηχανία)

- The results of the work [C57] on auction mechanisms for Question and Answer systems were communicated to business units of Yahoo! for the next generation of Yahoo! Answers platform.

- The methodology of the works [J37] and [C76] on task assignment to mobile crowdsensing users was used in the context of a Yahoo! internal project on photography crowdsensing in the city of Barcelona.
- The mobile app developed in [C94] destined to be a farmer assistant app runs over the wireless community network of Sarantaporo.gr and is used by the local population.
- The research work [C77] on social diffusion-aware recommender systems was presented to the business units of Tumblr to be considered for their recommender system.
- The research in [C92] about machine learning based predictions for advertisement bidding optimization was performed in the context of a private project with the startup Intelligent Banker and was incorporated in their bidding policy.
- The link transmission rate adaptation algorithm in [C10], [J11], designed by the applicant while in a research internship at Aperto Inc., CA is incorporated in wireless mesh / WiMAX products of Aperto Inc (<https://www.crunchbase.com/organization/aperto-networks#section-overview>)
- The research in [C60], [C55] on buffer-aided energy aware methods for relay selection was accomplished in cooperation with Samsung UK in the context of the European project CONECT and was communicated via the standardization group of Samsung to IEEE 802.16 bodies.
- The sequential detection algorithms in [J12], [C22] developed by the applicant and his collaborators at University of Washington and Boeing PhantomWorks initiated a series of internal Boeing PhantomWorks projects for counterfeiting wireless jamming attacks while on planes.

4.4. Journal publications (Δημοσιεύσεις σε επιστημονικά περιοδικά)

- J45. S. Chadoulos, I. Koutsopoulos and G.C. Polyzos, “Mobile Apps meet the smart energy grid: A survey on consumer engagement, and Machine Learning applications”, IEEE Access, vol.8, pp. 219632-219655, Dec. 2020. DOI: [10.1109/ACCESS.2020.3042758](https://doi.org/10.1109/ACCESS.2020.3042758).
- J44. G. Koutitas, S. Vyas, C. Vyas, S. Jadon and I. Koutsopoulos, “Practical methods for efficient resource utilization in Augmented Reality services”, IEEE Access, vol.8, pp. 220263-220273, Dec. 2020. DOI: [10.1109/ACCESS.2020.3042616](https://doi.org/10.1109/ACCESS.2020.3042616).
- J43. M. Halkidi and I. Koutsopoulos, “Recommender systems with selfish users”, Knowledge and Information Systems (KAIS) Journal, Springer, vol.62, pp.3239-3262, March 2020.
- J42. G. Darzanos, I. Koutsopoulos and G.D. Stamoulis, “Cloud Federations: Economics, Games and Benefits”, IEEE/ACM Transactions on Networking, vol.27, no.5, pp.2111-2124, Oct. 2019.
- J41. K. Poularakis, G. Iosifidis, A. Argyriou, I. Koutsopoulos and L. Tassiulas, “Distributed caching algorithms in the realm of layered video streaming”, IEEE Transactions on Mobile Computing, vol.18, no.4, pp.757-770, April 2019.
- J40. L. Chatzieftheriou, M. Karaliopoulos and I. Koutsopoulos, “Jointly Optimizing Content Caching and Recommendations in Small Cell Networks”, IEEE Transactions on Mobile Computing, vol.18, no.1, pp.125-138, Jan. 2019.
- J39. P. Micholia, M. Karaliopoulos, I. Koutsopoulos, L. Navarro, R. Baig, D. Boucas, M. Michalis, P. Antoniadis, “Community networks and Sustainability: A Survey of perceptions, practices and proposed solutions”, IEEE Communications Surveys, vol.20, no.4, Q4, 2018.
- J38. L. Gkatzikis, V. Sourlas, C. Fischione and I. Koutsopoulos, “Low-complexity content replication through clustering in content-delivery networks”, Elsevier Computer Networks, vol.121, pp.137-151, July 2017.

- J37. P. Micholia, M. Karaliopoulos, I. Koutsopoulos, L.M. Aiello, G.D.F. Morales and D. Quercia, "Incentivizing social media users for mobile crowdsourcing", Elsevier International Journal on Human-Computer Studies, vol.102, pp. 4-13, June 2017.
- J36. G. Iosifidis, I. Koutsopoulos and G. Smaragdakis, "Distributed storage control algorithms for Dynamic Networks", IEEE/ACM Transactions on Networking, vol.25, no.3, pp.1359-1372, June 2017.
- J35. P. Giaccone, M. Pretti, D. Syrivelis, I. Koutsopoulos and L. Tassiulas, "Design and implementation of a belief-propagation scheduler for multicast traffic in input-queued switches", Elsevier Computer Communications, vol.103, pp.141-152, May 2017.
- J34. T. Papaioannou, V. Hatzi and I. Koutsopoulos, "Optimal Design of Serious Games for consumer engagement in the smart grid", IEEE Transactions on Smart Grid, vol.9, no.2, pp.1241-1249, March 2018. DOI: 10.1109/TSG.2016.2582298.
- J33. A. Anastopoulou, I. Koutsopoulos and G.D. Stamoulis, "Optimal targeting and contract offering for load curtailment in Nega-watt markets", IEEE Transactions on Control of Networked Systems, vol.4, no.4, pp.805-815, Dec. 2017.
- J32. K. Pelechrinis, I. Koutsopoulos, Y. Broustis and S. Krishnamurthy, "Jammer localization in wireless networks: An Experimentation-driven Approach", Elsevier Computer Communications, vol.86, pp.75-85, July 2016.
- J31. V. Hatzi, B. B. Cambazoglu and I. Koutsopoulos, "Optimal web page download scheduling policies for green web crawling", IEEE Journal on Selected Areas in Communications (Green Communications series), vol.34, no.5, pp. 1378-1388, May 2016.
- J30. O. Korcak, G. Iosifidis, T. Alpcan, I. Koutsopoulos, "Operator collusion and market regulation policies for wireless spectrum management", vol.15, no.10, pp. 2537-2549, IEEE Transactions on Mobile Computing, October 2016.
- J29. N.D. Chatzidiamantis, E. Matskani, L. Georgiadis, I. Koutsopoulos, L. Tassiulas, "Optimal Primary-Secondary user cooperation policies in Cognitive Radio Networks", IEEE Transactions on Wireless Communications, vol. 14, No.6, pp.3443-3455, June 2015.
- J28. D. Saad, C.-H. Yeung, G. Rodolakis, D. Syrivelis, I. Koutsopoulos, L. Tassiulas, R. Urbanke, P. Giaccone, E. Leonardi, "Physics-inspired Methods for Networking and Communications", IEEE Communications Magazine, vol.52, no.11, pp.144-151, Nov. 2014.
- J27. I. Koutsopoulos and M. Halkidi, "Distributed energy-efficient estimation in Spatially Correlated wireless sensor networks", Elsevier Computer Communications, vol.45, pp.47-58, June 2014.
- J26. S. Keranidis, G. Kazdaridis, V. Passas, T. Korakis, I. Koutsopoulos and L. Tassiulas, "NITOS energy monitoring framework: Real-time power monitoring in Experimental Wireless Network Deployments", ACM SIGMOBILE Mobile Computing and Communications Review (MC2R), vol.18, no.1, pp. 64-74, January 2014.
- J25. I. Koutsopoulos, L. Tassiulas and L. Gatzikis, "Client and server games and Nash equilibria in peer-to-peer networks", Elsevier Computer Networks, vol.67, pp.201-218, 2014.
- J24. S. Keranidis, D. Giatsios, T. Korakis, I. Koutsopoulos, L. Tassiulas, T. Rakotoarivelo, M. Ott and T. Parmentelat, "Experimentation on end-to-end performance aware algorithms in the federated environment of the heterogeneous PlanetLab and NITOS test-beds", Elsevier Computer Networks (Special Issue on Future Internet Test-beds), vol.63, pp. 48-67, 2014.
- J23. L. Gatzikis, I. Koutsopoulos, "Migrate or not? Exploring Dynamic Task Migration in Cloud Computing Systems", IEEE Wireless Communications Magazine, vol.20, no.3, June 2013.

- J22. L. Gkatzikis, I. Koutsopoulos and T. Salonidis, "The role of Aggregators in Smart Grid Demand Response markets", IEEE Journal on Selected Areas in Communications, vol.31, no.7, pp. 1247-1257, July 2013.
- J21. K. Choumas, S. Keranidis, T. Korakis, I. Koutsopoulos, L. Tassiulas, F. Juraschek, M. Gunes, E. Baccelli, P. Misiorek, A. Szwabe, T. Salonidis, H. Lundgren, "Optimization-driven Multi-hop Network Design and Experimentation: The Approach of the FP7 project OPNEX", IEEE Communications Magazine, vol. 50, no.6, pp.122-130, June 2012.
- J20. I. Koutsopoulos and S. Stanczak, "The impact of PHY rate control on Energy-efficient estimation in wireless sensor networks", IEEE Transactions on Wireless Communications, vol.11, no.9, pp. 3261-3271, Sept. 2012.
- J19. I. Koutsopoulos and L. Tassiulas, "Fast Neighbor Positioning and Medium Access in Wireless Networks with Directional Antennas", Elsevier Ad hoc Networks, (Special Issue on Cross-layer design in Ad-hoc and Sensor Networks), vol.11, pp. 614-624, 2013.
- J18. I. Koutsopoulos and L. Tassiulas, "Optimal control policies for power demand scheduling in the Smart Grid", IEEE Journal on Selected Areas in Communications (Smart Grid Series), vol.30, no.6, pp.1049-1060, July 2012.
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- SJ1. D. Kafetzis, G. Vardoulis, S. Vassilaras and I. Koutsopoulos, "Software Defined Networking meets Software Defined Radio in Wireless Ad hoc Networks: State of the Art and Future Directions", submitted to IEEE Communications Surveys and Tutorials.

4.5. Books (Βιβλία)

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- BC2. G. Iosifidis and I. Koutsopoulos, "Auction driven market mechanisms for dynamic spectrum management", in "Mechanisms and Games for Dynamic Spectrum Allocation" (Edited by T. Alpcan, H. Boche, M. Honig, H. Vincent Poor), Cambridge University Press, 2013.
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- C118. S. Chadoulos, I. Koutsopoulos and G.C. Polyzos, “One model fits all: individualized household energy demand forecasting with a single deep-learning model”, Proceedings of International workshop on Applied Machine Learning for Intelligent Energy Systems (AMLIES) 2021 (in conjunction with e-Energy 2021), Virtual.
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- C116.A. Anastopoulou, G.D. Stamoulis and I. Koutsopoulos, “Efficient peer-to-peer energy trading mechanisms with unreliable prosumers”, Proceedings of ACM International Conference on Future Energy Systems (e-Energy), 2021, Virtual.
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- C112. G. Darzanos, L. Chatzieftheriou, M. Karaliopoulos and I. Koutsopoulos, ‘Content preference-aware user association and caching in cellular networks”, Proceedings of IEEE WIOPT Workshop on Content Caching and Delivery in Wireless Networks (CCDWN) 2020, Virtual.
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- C109. E. Harteros and I. Koutsopoulos, “Edge computing for having an edge on cancer treatment: a mobile app for breast image analysis”, Proceedings of IEEE ICC Workshop on IoT Enabling Technologies in Healthcare (IoT-Health) 2020, Dublin, Ireland.
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- C24. I. Koutsopoulos and G. Iosifidis, "Reputation-assisted utility maximization algorithms for peer-to-peer networks", Proceedings of IEEE International Workshop on QoS (IWQoS), 2008, Twente, Netherlands.
- C23. R. Oliveira, L. Bernardo, P. Pinto and I. Koutsopoulos, "On service time estimation in 802.11 WLANs with heterogeneous sources", Proceedings of IEEE International Symposium on Wireless Communication Systems (ISWCS) 2008, Reykjavik, Iceland.
- C22. M. Li, I. Koutsopoulos and R. Poovendran, "Optimal jamming attacks and defense strategies in wireless sensor networks", Proceedings of IEEE INFOCOM 2007, Anchorage, Alaska.
- C21. C. Verikoukis, L. Alonso and I. Koutsopoulos, "Performance evaluation of directional antenna-assisted MAC protocols in the presence of mobility", Proceedings of IST Mobile Summit 2006, Mykonos, Greece.

- C20. S. Radosavac, J.S. Baras and I. Koutsopoulos, "A framework for MAC layer misbehavior detection in wireless networks", Proceedings of ACM Workshop on Wireless Security (in Mobicom 2005), Cologne, Germany.
- C19. I. Koutsopoulos, S. Toumpis and L. Tassiulas, "On the relation between source and channel coding and sensor network deployment", Proceedings of International Workshop on wireless ad-hoc networks (IWWAN) 2005, London.
- C18. A. Penttinen, I. Koutsopoulos and L. Tassiulas, "Low-complexity distributed fair scheduling for wireless multi-hop networks", First Workshop on Resource Allocation in Wireless Networks (RAWNET), (in WiOpt 2005), Riva del Garda, Italy.
- C17. U.C. Kozat, I. Koutsopoulos and L. Tassiulas, "A framework for cross-layer design of Energy-Efficient Communication with QoS provisioning in Multi-hop wireless networks", Proceedings of INFOCOM 2004, vol.2, pp.1446-1456, Hong Kong.
- C16. I. Koutsopoulos and L. Tassiulas, "Adaptive channel allocation in OFDM/SDMA wireless LANs with limited transceiver resources", Proceedings of Third IFIP-TC6 Networking Conference 2004, Athens, Greece and Lecture Notes in Computer Science, vol.3042, pp.1384-1389, 2004.
- C15. I. Koutsopoulos, T. Ren and L. Tassiulas, "The impact of Space Division Multiplexing on resource allocation: A unified approach", Proceedings of INFOCOM 2003, vol.1, pp.533-543, San Francisco.
- C14. I. Koutsopoulos and L. Tassiulas, "Adaptive resource allocation in SDMA-based wireless broadband networks with OFDM signaling", Proceedings of IEEE INFOCOM 2002, vol.3, pp.1376-1385, New York.
- C13. U.C. Kozat, I. Koutsopoulos and L. Tassiulas, "Dynamic code assignment and spreading gain adaptation for synchronous CDMA wireless networks", Proceedings of IEEE International Symposium on Spread Spectrum Techniques and Applications (ISSSTA) 2002, vol.2, pp.593-597, Prague, Czech Republic.
- C12. I. Koutsopoulos, T. Ren and L. Tassiulas, "Efficient media access protocols for wireless LANs with smart antennas", Proceedings of IEEE Wireless Communications and Networking Conference (WCNC) 2003, vol.2, pp. 1286-1290, New Orleans.
- C11. T. Ren, I. Koutsopoulos and L. Tassiulas, "QoS provisioning for real-time traffic in wireless packet networks", Proceedings of IEEE Global Telecommunications Conference (GLOBECOM) 2002, vol.2, pp.1673-1677, Taipei, Taiwan.
- C10. I. Koutsopoulos and L. Tassiulas, "Link adaptation policies for wireless broadband networks", Proceedings of IEEE Global Telecommunications Conference (GLOBECOM) 2001, vol.1, pp.572-576, San Antonio, Texas.
- C9. I. Koutsopoulos and L. Tassiulas, "Channel-state adaptive techniques for throughput enhancement in wireless broadband networks", Proceedings of IEEE INFOCOM 2001, vol.2, pp.757-766, Anchorage, Alaska.
- C8. I. Koutsopoulos and L. Tassiulas, "Carrier assignment algorithms in wireless broadband networks with channel adaptation", Proceedings of IEEE International Communications Conference (ICC) 2001, vol.5, pp.1401-1405, Helsinki, Finland.
- C7. I. Koutsopoulos and L. Tassiulas, "Joint base station and channel allocation in mobile cellular networks", Proceedings of IEEE International Communications Conference (ICC) 2000, vol.3, pp.1558-1562, New Orleans, LA.

- C6. I. Koutsopoulos, A. Savvides, D. Connors and S.K. Dao, "Intra-team multi-hop broadcasting (ITMB): a MAC layer protocol for efficient control signaling in wireless ad-hoc networks", Proceedings of IEEE International Communications Conference (ICC) 2000, vol.3, pp.1723-1727, New Orleans, LA.
- C5. I. Koutsopoulos and P. Constantinou, "Joint channel estimation and satellite antenna power control in mobile satellite networks using ray tracing", Proceedings of IEEE Vehicular Technology Conference (VTC) 2000 Spring, vol.2, pp.1586-1590, Tokyo, Japan.
- C4. I. Koutsopoulos and L. Tassiulas, "A synchronization-based scheme for simultaneous full- and half-duplex communication in GSM-based MEO mobile satellite networks", Proceedings of IEEE Global Telecommunications Conference (GLOBECOM) 1999, vol.1A, pp.276-280, Rio de Janeiro, Brazil.
- C3. I. Koutsopoulos and L. Tassiulas, "Reliable handover prediction and resource allocation in MEO mobile satellite networks", Proceedings of IEEE/IMACS Circuits, Systems, Communications Conference 1999, Athens, Greece.
- C2. I. Koutsopoulos and L. Tassiulas, "A unified framework for handover prediction and resource allocation in non-geostationary mobile satellite networks", Proceedings of IEEE Vehicular Technology Conference (VTC) 1999 Fall, vol.4, pp.2106-2110, Amsterdam, Netherlands.
- C1. T. Sofos, I. Koutsopoulos and P. Constantinou, "A deterministic ray-tracing based model for land mobile satellite channel in urban environment", Proceedings of IEEE Vehicular Technology Conference (VTC) 1998, vol.1, pp. 658-660, Vancouver, Canada.

4.7.1. Conference papers under review (Εργασίες υπό κρίση σε επιστημονικά συνέδρια)

- SC3. G. Darzanos, I. Koutsopoulos and G.D. Stamoulis, "Economics of Multi-operator network slicing", submitted to IEEE INFOCOM 2022.
- SC2. K. Ntougias, C. Psomas, E. Dimarchou, I. Krikidis and I. Koutsopoulos, "Joint Dynamic Wireless Edge caching and user association: a stochastic optimization approach", to be submitted to IEEE ICC 2021.
- SC1. I. Koutsopoulos, "Learning the optimal offloading policy for image processing tasks over wireless links", submitted to IEEE INFOCOM 2022.

4.8. Demos (Επιδείξεις)

- D15. E. Aliaj, G. Dimaki, P. Getsopoulos, Y. Thomas, N. Fotiou, S. Toumpis, V. Siris, I. Koutsopoulos and G.C. Polyzos, "Wireless Maritime Networking Experiments with Dedalus", in ACM WinTech 2018.
- D14. A. Apostolaras, N. Nikaein, R. Knopp, A.M. Cipriano, T. Korakis, I. Koutsopoulos and L. Tassiulas, "A demonstration of evolved User Equipment for collaborative wireless backhauling in next generation cellular networks", in IEEE SECON, 2015.
- D13. S. Keranidis, K. Chounos, T. Korakis, I. Koutsopoulos and L. Tassiulas, "Enabling AGILE Spectrum Adaptation in commercial 802.11 WLAN deployments", in ACM Mobicom 2014.
- D12. S. Keranidis, G. Kazdaridis, V. Passas, G. Igoumenos, T. Korakis, I. Koutsopoulos and L. Tassiulas, "NITOS Mobile Monitoring solution: Realistic Energy consumption profiling of mobile devices", in ACM E-Energy 2014.

- D11. S. Keranidis, G. Kasdaridis, V. Passas, G. Igoumenos, T. Korakis, I. Koutsopoulos and L. Tassiulas, "NITOS Mobile Monitoring Solution: Realistic Energy Consumption Profiling of Mobile Devices", in ACM WINTECH 2014.
- D10. V. Passas, K. Chounos, S. Keranidis, W. Liu, L. Hollevoet, T. Korakis, I. Koutsopoulos, I. Moerman and L. Tassiulas, "Online evaluation of sensing characteristics for radio platforms in the CREW federated testbed, in ACM Mobicom 2013.
- D9. S. Keranidis, G. Kazdaridis, V. Passas, T. Korakis, I. Koutsopoulos and L. Tassiulas, "Online energy consumption monitoring of wireless testbed infrastructure through the NITOS EMF framework", in ACM WinTech 2013.
- D8. A. Apostolaras, I. Syrigos, I. Kazdaridis, K. Choumas, T. Korakis, I. Koutsopoulos, A. Argyriou, and L. Tassiulas, "A Demonstration of a Relaying Selection Scheme for Maximizing A Diamond Network's Throughput", in TridentCom, 2012.
- D7. V. Maglogiannis, D. Giatsios, G. Kazdaridis, T. Korakis, I. Koutsopoulos, and L. Tassiulas, "Integrating sensor measurements through CM cards as an OMF service ", in TridentCom, 2012.
- D6. K. Choumas, T. Korakis, I. Koutsopoulos, and L. Tassiulas., "A Demonstration of Video over an IEEE 802.11 compliant version of the Enhanced-Backpressure algorithm", in TridentCom, 2012.
- D5. V. Passas, S. Keranidis, T. Korakis, I. Koutsopoulos, and L. Tassiulas. An Experimental Framework for Channel Sensing through USRP/GNU Radios", in TridentCom, 2012.
- D4. I. Kazdaridis, S. Keranidis, H. Niavis, T. Korakis, I. Koutsopoulos, and L. Tassiulas, "An Integrated Chassis Manager Card Platform featuring multiple sensor modules", in TridentCom, 2012 (**Best Demo award**).
- D3. N. Makris, S. Keranidis, D. Giatsios, T. Korakis, I. Koutsopoulos, L. Tassiulas, T. Rakotoarivelo and T. Parmentelat, "Cross-test-bed experimentation using the PlanetLab-NITOS federation, in TridentCom, 2012.
- D2. G. Kasdaridis, S. Keranidis, A. Fiamegkos, T. Korakis, I. Koutsopoulos, L. Tassiulas, "Dynamic Frequency selection through collaborative reporting in WLANs", in ACM Mobicom 2011.
- D1. S. Keranidis, I. Koutsopoulos, T. Korakis, L. Tassiulas, "An experimental framework for data gathering and analysis in wireless sensor networks", ACM WINTECH 2011.

4.9. Patents (Ευρεσιτεχνίες)

- P1. D. Connors and I. Koutsopoulos, "Apparatus and method for intra-team multi-hop broadcasting for efficient control signaling in wireless ad-hoc networks, US Patent No.7,542,426, United States Patent and Trademark Office, 2009.

5. Funding and research projects (Χρηματοδότηση και ερευνητικά έργα)

5.1. Overview of Funding activity (Συνοπτική εικόνα προσελκυσθείσας χρηματοδότησης)

Have attracted funding of **€6.36M** from the following sources:

- European Commission: €4.62M
 - H2020 project NUDGE (€185K)
 - H2020 project InterConnect (€327K)
 - H2020 ESMERA Open Call EREVOS project (€20K)
 - H2020 project NetCommons (€262K)

- H2020 project DREDBox (€780K)
- FP7 EU projects STAMINA (€560K), CONECT (€490K), OPNEX (€430K), N-CRAVE (€560K).
- FP7 Marie Curie Project AGILENET (€58K)
- FP6 EU project NETREFOUND (€436K)
- FP6 Marie Curie Project SAINT-W (€80K)

- National Funds: €1.53M
 - CHIST-ERA project LeadingEdge (€197K)
 - Single-investigator ERC-runner-up project RECITAL (€690K)
 - Hellenic Foundation for Research and Innovation (HFRI) (€183K)
 - National programs "Thales" (€200K)
 - National Program "Postdoc" (€150K)
 - Ministry of education ELIDEK Fund for Reinforcing Young Researchers (€57K)
 - General Secretariat for Research and Technology, GR (€15K)
 - General Secretariat for Research and Technology, GR: National matching funds for European projects (~€4K)
 - Greek Government Scholarships Foundation (IKY) (€10K)
 - AUEB internal funding: Programs "Original scientific publications" and "Reinforcement of research" (€20.5K)

- Private sector: €220K
 - Samsung GRO Program (€200K)
 - Intelligent Banker Inc., Odense, Denmark (€20K)

5.2. Funding record and projects (Προσελκυθείσα χρηματοδότηση και έργα)

European Projects where I. Koutsopoulos acts or has acted as PI, co-PI or Technical Coordinator

- **European Commission** "Nudging consumers towards energy efficiency with behavioral science" (NUDGE), Energy H2020 Research and Innovation project, budget €2M, EU funding €2M; AUEB EU funding €185K; Function: PI for AUEB, 2020-2023.
- **European Commission** "Aerial survey of railways with drones for vegetation management" (EREVOS), Open call from European SMEs Robotics Applications (ESMERA) project, budget €75K, EU funding €75K; AUEB funding €20K; Function: PI for AUEB, 2019-2020.
- **European Commission** "Interoperable solutions connecting smart homes, buildings, and grids" (InterConnect), Energy H2020 Innovation Action project, budget €30M, EU funding €30M; AUEB EU funding €327.8K; Function: co-PI for AUEB (with G. Polyzos), 2019-2023.
- **European Commission** "Disaggregated Recursive Data Centre in-a-Box" (DREDBox), ICT H2020 Research and Innovation Action project, budget €6.45M, EU funding €6.45M; UTH EU funding €780K; Function: co-PI for UTH (with T. Korakis), 2016-2018.
- **European Commission** "Network infrastructure as commons" (netcommons), ICT H2020 Research and Innovation Action project, budget €2.4M, EU funding €1.93M; AUEB EU funding €262K; Function: PI for AUEB, 2016-2018.
- **European Research Council (ERC) runner-up award** (co-funded by Greece and the European Union (European Social Fund) through the Operational Program "Education and lifelong learning -

NCRF 2007-2013), for the project "RECITAL: Resource Management for Self-coordinated Autonomic Wireless Networks", €690K (single investigator), 2012-2015. The ERC proposal progressed to the interview stage, it was not funded by ERC but was co-funded by EU and National Funds. Function: PI, Technical Coordinator.

- **European Commission** "Cooperative Networking for High Capacity Transport Architectures" (CONNECT) ICT FP7 STREP, budget €2.8M, EU funding €2M; CETH budget €605K, EU funding €490K; Function: Proposal author, project Technical Coordinator, co-PI (with L. Tassioulas), 2010-2013.
- **European Commission** "Statistical Mechanics Inspired Methods for Green Autonomous Networking" (STAMINA) ICT FP7 STREP, budget €2.6M, EU funding €2M; CETH budget €659K, EU funding €560K; Function: proposal author, project Technical Coordinator, co-PI (with L. Tassioulas), 2011-2014.
- **European Commission** "Cooperative Networking for High Capacity Transport Architectures" (CONNECT) ICT FP7 STREP, budget €2.8M, EU funding €2M; CETH budget €605K, EU funding €490K; Function: Proposal author, project Technical Coordinator, co-PI (with L. Tassioulas), 2010-2013.
- **European Commission** "Adaptive, heterogeneous, incentive-compatible, localized and secure networking (AGILENET)", Marie Curie IRSES project, budget €190K; UTH budget / EU funding €58K; Function: PI for UTH, 2011-2013.
- **European Commission** "Optimization driven multi-hop Network design and EXperimentation" (OPNEX) ICT FP7 STREP 224218, budget €2.2M, EU funding €1.4M; CETH budget €539K, EU funding €430K; Function: Proposal writer, project Technical Coordinator, co-PI (with L. Tassioulas), 2008-2011.
- **European Commission** "Networking Research Foundations and Trends" (NETREFOUND) IST FP6 STREP 034413 budget €2.5M EU funding €1.7M; CETH budget €761K, EU funding €436K; Function: proposal writer, project Technical Coordinator, project co-PI (with L. Tassioulas), 2006-2009.
- **European Commission Marie Curie International Re-Integration Grant (IRG)** for the project "SAINT-W: Secure Advanced Integrated Layer Design of Wireless Networks", EU funding €80K, 9/2005-9/2007.

National Projects where I. Koutsopoulos acts or has acted as PI, co-PI or technical coordinator

- **CHIST-ERA** "Holistic and foundational resource allocation framework for optimized and impactful edge computing services" (LeadingEdge), CHIST-ERA 2018 call, 2020-2023, budget €1.46M, EU funding €1.02M; AUEB funding €197.25K; Function: PI for AUEB, 2020-2023.
- **Hellenic Foundation for Research and Innovation**: grant for Faculty Members, for the project "LEMONADE: Wireless mobile delay-tolerant networks: Design and experimentation" €183K; Function: co-PI (with S. Toumpis), 2020-2022.
- **Ministry of Education and Lifelong Learning**: grant for Reinforcement of Young Researchers, for the project "Optimal content caching techniques for mobile communication networks", €57K; Function: PI, 2017-2019.
- **Research Support Grant**, Athens University of Economics and Business, for the project "Optimization of computation and data collection in mobile environments", €10K; Function: PI, 2015-2017.

- **Ministry of National Education** "Optimal Control of Self-organized Wireless Networks" (CROWN) Program "Thales"; funding €600K; UTH funding €200K; Function: proposal editor, project co-PI for UTH (with L. Tassiulas), 2011-2014.
- **Ministry of National Education**, "Wireless Network Coding for practical systems (WiNC), program "Postdoc", funding €150K; Function: PI, 2012-2015.
- **Greek Government Scholarship Foundation (IKY)** for bi-lateral collaboration with Deutsche Telekom Labs, Germany, for the project "Optimal management of storage in communication networks and cloud systems", €10K; Function: PI, 2012-2013.
- **General Secretariat for Research and Technology, GR (GSRT)**, Program for Scientific and Technological Cooperation Greece - Turkey, for the project "Design Of Algorithms For Ensuring Timely and Secure Data Delivery In Wireless Networks"; funding €15K; Function: PI, 2006-2008.

Private Projects where I. Koutsopoulos acts or has acted as PI, co-PI or technical coordinator

- **Intelligent Banker** bilateral project "Machine-learning-driven dynamic bidding optimization for maximum revenue", 2017-2018, €20K. Function: PI.
- **Samsung Global Research Outreach (GRO) Innovations program award** for the project "NETSTAT: Network inference and optimization with statistical physics methods", 2012-2013, €200K. Function: co-PI (with L. Tassiulas).

European Projects where I. Koutsopoulos participates or has participated

- **European Commission** "Dynamically reconfigurable optical/wireless fronthaul/backhaul with cognitive control plane for small cells and cloud-RANs" (5G-Xhaul), H2020 5G-PPP project, Sept. 2015-Aug. 2018.
- **European Commission** "European Internet Science" (EINS) ICT FP7 NoE, 2011-2014. Economics inspired network resource allocation, information privacy.
- **European Commission** "Forensic Laboratory for in-situ evidence analysis in a post blast scenario (FORLAB)", SEC FP7 STREP project.
- **European Commission** "Towards Real Energy-efficient Network Design" (TREND), ICT FP7 NoE, 2010-2013. Energy-efficiency in networking and smart grid.
- **European Commission** "Control for Coordination of Distributed Systems (Con4Coord)" - ICT FP7 STREP, (2008-2011). Distributed sensor network control algorithms for optimal estimation.
- **European Commission** "Network Coding for Robust Architectures in Volatile Environments" (N-CRAVE) ICT FP7 STEP 215252 budget 3.57M, EU funding: 2.36M; CERTH budget 700K, EU funding 560K; proposal author, 2007-2010.
- **European Commission** Network of Excellence in Wireless Communications ++ (NEWCOM++) – ICT FP7 NoE, 2008 – 2011. Coordination of subproject on Network Theory.
- **European Commission** "An all-wireless Mobile Network Architecture (WIP)", IST FP6 STREP Project, 2006-2009. Design and implementation of resource allocation algorithms for wireless mesh networks.
- **European Commission** Network of Excellence in Wireless Communications (NEWCOM) – IST FP6 NoE, 2004 – 2007. Coordination of sub-project on cross-layer optimization.
- **European Commission** CRUISE (Creating Ubiquitous Intelligent Sensing Environments) – IST FP6 NoE on sensor networks, 2006-2008. Architectural design and security issues in Wireless Sensor Networks.

National Projects where I. Koutsopoulos participates or has participated

- **General Secretariat for Research and Technology (GSRT)** “Converging FTTx and Broadband Heterogenous Wireless Services over Next-Generation Radio-over-Fiber Passive Optical Networks” Program COOPERATION, 2011-2014.
- **General Secretariat for Research and Technology (GSRT)**, “Resource management and security in broadband wireless networks” program PENED, 2005-2008.

6. Invited Research Talks (Προσκεκλημένες ομιλίες)

- “Anthology of Research in edge wireless networks and online platforms”, European University of Cyprus, February 2020.
- “Anthology of Research in edge wireless networks and online platforms”, University of Cyprus, February 2020.
- “Resource allocation and network economics issues in edge wireless networks”, Yale University, November 2019.
- “Resource allocation and network economics issues in edge wireless networks”, Aalto University, Finland, September 2019.
- “Wireless resource and infrastructure sharing challenges in future wireless architectures”, Tutorial presentation in IEEE International Workshop on Computer-Aided Modeling Analysis and Design of Communication Links and Networks (CAMAD), Barcelona, September 2018.
- “Wireless Community Networks and 5G: the 7-Billion-user challenge”, Tutorial presentation at European Conference on Communications and Networking (EuCNC), 2018, Ljubljana, Slovenia (with M. Karaliopoulos, R. Io Cigno, L. Maccari, L. Navarro), June 2018.
- “Research challenges in optimization of mobile crowdsensing and online platforms”, Hamad Bin Khalifa University, Doha, Qatar, June 2017.
- “Research challenges in optimization of mobile crowdsensing and online platforms”, Trinity College Dublin, April 2017.
- “Research challenges in optimization of mobile crowdsensing and online platforms”, Yale University, March 2017.
- “Research challenges in optimization of mobile crowdsensing and online platforms”, Free University of Bolzano, July 2016.
- “Optimization of mobile crowdsensing and recommender systems platforms”, IMDEA Networks, February 2016.
- "Social-diffusion aware recommender systems", Yahoo! Research Labs, London, July 2015.
- "Incentives and privacy in crowd-sensing and recommender systems", Yale University, April 2015.
- "Snapshots on Research Challenges on Wireless and Social Networks", Huawei Research Lab, Paris, February 2015.
- "Snapshots on Research Challenges in Control and Optimization problems for smart cities", EINS Summer School: From Smart Cities to Engaged Citizens, Volos, Greece, July 2014.
- "Optimal design of incentive-based participatory sensing systems", Toshiba Labs, UK, June 2014.
- "Optimal design of incentive-based participatory sensing systems", KTH, June 2014.
- “Optimal policies for smart grid demand control and for incentive-driven participatory sensing systems”, Technical University of Darmstadt, February 2014.

- "Optimal incentive-driven participatory sensing systems", Yahoo! Research labs, Barcelona, May 2013.
- "Game theoretic framework for privacy preservation in recommendation systems", Yahoo! Research labs, Barcelona, Sept. 2012.
- "Cross-layer Architectures", GREENET project Seminar, Barcelona, Oct. 2012.
- "Games and Optimization for Wireless Resource Allocation", Communications and Networking Research Group, EECS Dept., Massachusetts Institute of Technology (MIT), Boston, March 2011.
- "Auction Mechanisms for Network Resource Allocation", Institute for Telematics and Informatics, CERTH, Oct. 2010.
- "Client and Server Games in Peer-to-peer networks", Young European Queuing Theorists Workshop (YEQT) III, Eindhoven, Nov. 2009.
- "Energy efficient estimation and spatial correlation in wireless sensor networks", Fraunhofer Institute - MCI German Sino Lab, Berlin, Nov. 2009.
- "Distributed optimization, game theory and reputation in peer-to-peer networks", Thomson Research Lab, Paris, April 2009.
- "Distributed Bandwidth Allocation Algorithms for peer-to-peer networks", Politecnico di Torino, February 2009.
- "Challenges in Resource Allocation and Intrusion Detection in distributed wireless environments", TUC, Crete, Aug. 2008.
- "Resource allocation and security issues in wireless networks", University of California, Riverside, February 2008.
- "A statistical framework for modeling wireless network attacks", Workshop on Security and Wireless Sensor Networks, PIMRC 2007, Athens, September 2007.
- "Security and spectrum allocation issues in Cognitive Radio networks", NEWCOM Workshop on Flexible radio, IMEC, Belgium, February 2007.
- Lectures: "From fundamental to modern aspects of wireless communications" and "Advanced topics in ad-hoc and sensor networking", Summer School "Advances in Beyond 3G Wireless Communications and Networks", Santorini, September 2006.
- "Issues in wireless network security and misbehavior", Institute Mechanique and Electrotechnique (IMEC), Leuven, Belgium, September 2006.
- "Advances in Cross-layer designs of wireless networks", NEWCOM Workshop, in conjunction with ICC 2006, Istanbul, Turkey, June 2006.
- "Security of Wireless Networks and protection from malicious attacks", 2nd Balkan Security Forum, Thessaloniki, June 2006.
- "Access layer misbehavior detection issues in wireless networks", University Polytechnic Catalunya (UPC), Barcelona, Spain, April 2006.
- "Challenges in access layer misbehavior detection in wireless networks", Technical University of Denmark, Copenhagen, March 2006.
- "A framework for MAC layer misbehavior detection in wireless networks", University of Washington, Seattle, June 2005.
- "Security and Legitimate Protocol operation in wireless networks", Workshop on Security of Broadband Wireless Networks, European Parliament, Brussels, Belgium, May 2005.
- "Cross-layer based resource allocation and CSI management in wireless networks", Forschungszentrum Telekommunikation Wien (FTW), Vienna, Austria, April 2005.

- "Cross-layer design considerations for energy-efficient multimedia transmission in wireless multi-hop networks", NEWCOM Workshop "Wireless Week in Bologna", Bologna, Italy, January 2005.
- "Cross-layer design issues in wireless networks", Centre Technologic de Telecommunications de Catalunya (CTTC), Barcelona, Spain, September 2004.
- "Resource allocation issues in broadband wireless networks with OFDM signaling", University of Maryland Baltimore County (UMBC), December 2002.
- "Wireless broadband networks: Where is the key to heaven?", Graduate Seminar Series, Department of Electrical and Computer Engineering, University of Maryland College Park, December 1999.

7. Students and Teaching (Φοιτητές και διδασκαλία)

7.1. Student supervision (Επίβλεψη φοιτητών)

7.1.1. Doctoral dissertations supervised (Επίβλεψη διδακτορικών διατριβών)

- **Leonidas Tsolas**: Bandit and online learning for 5G network resource allocation, 1/2020-present, AUEB.
- **Livia Chatzieftheriou**: Wireless edge caching and recommender systems, 5/15 - present, AUEB.
- **Dimitrios Kafetzis**: Machine Learning applications in UAVs and edge computing platforms, 3/2019-present, AUEB.
- **Ioannis Papageorgiou**: Design and implementation of resource allocation mechanisms in Software defined mobile networks, 6/2021-present, AUEB
- **Spyros Chadoulos**: Machine learning methods for the environment and the smart energy grid, 11/2019-present, AUEB (co-supervised with G. Polyzos).
- **George Darzanos**: Cloud computing and 5G resource management with network economics methods, 1/2014-present, AUEB (co-supervised with G. Stamoulis).
- **Angeliki Anastopoulou**: Economic mechanisms design for prosumer participation in electricity markets, graduated December 2020, AUEB (co-supervised with G. Stamoulis); now with the Regulatory Energy Authority, Greece.
- **George Iosifidis**: "Spectrum and Storage Capacity Management methods using network economics and optimization methods", graduated May 2012; now an Assistant Professor at Trinity College, Dublin; was post-doctoral researcher at Yale University.
- **Lazaros Gkatzikis**: "Optimization and Game theory techniques for energy-constrained networked systems and the smart grid", graduated July 2013; now a senior standardization specialist at Nokia Bell Labs, Paris; was a research staff member at Huawei Research Lab, Paris; was post-doctoral researcher at KTH.
- **Stratos Keranidis**: "Design and implementation of resource allocation algorithms for wireless networks", graduated June 2014; now Chief Executive Officer at domX, GR; was a post-doctoral researcher at UTH.
- **Vassiliki Hatzi**: "Energy management and consumer modeling in smart grid systems", graduated February 2017.

7.1.2. M.Sc. Theses supervised (Επίβλεψη μεταπτυχιακών εργασιών)

- **Christos Markakis:** Machine learning methods for responsible gaming, AUEB (ongoing)
- **Athanasios Nikas:** Tackling the cold-start problem in Recommender systems, AUEB (ongoing)
- **Thomas Tsouparopoulos:** Implementation of Federated Learning algorithms on Raspberry Pi's, AUEB (ongoing)
- **Alexandra Athanasakou:** Recommender systems for smart grid mobile apps, AUEB, May 2021.
- **Panagiotis Kolozis:** Maritime routing and navigation using reinforcement learning, AUEB, Sept. 2020.
- **Eleftherios Harteros:** Federated learning for wireless networks, AUEB, Sept. 2020.
- **Spyros Hadoulas:** Machine learning applications for demand and supply prediction in smart grid, AUEB, July 2019; continued to Ph.D.
- **Spyros Fourakis:** Object recognition with Machine Learning, AUEB, March 2019.
- **Konstantinos Kontoulis:** Behavior-aware mobile app design, AUEB March 2019.
- **Georgios Aggeloudis:** Data-driven mobile video quality assessment, AUEB, June 2019.
- **Panagiotis Spentzouris:** Optimization problems in mobile and online advertising, AUEB, February 2018, now a research engineer with MPASS Ltd., Greece.
- **Gregory Maragkakis:** Data analytics for cloud troubleshooting, AUEB, in collaboration with Nokia Athens R&D center (co-supervised with G.C. Polyzos), February 2017; now a Machine Learning engineer at WINGS ICT solutions; was an engineer with Accepted Ltd.
- **Dimitrios Sideratos:** Auction mechanisms for Big Data, AUEB, February 2014; now big data engineer at Channel VAS; was with Hellenic Telecommunications Organization (OTE).
- **Evgenia Noutsis:** The impact of social networks on mobile data operator mechanisms, AUEB, February 2014; Now a Research Engineer with Nokia Networks, Greece.
- **Dimitrios Hatzopoulos:** Energy-efficient scheduling in cloud computing systems July 2013; now a research Assistant Professor at HKUST, HK; was Ph.D. student at HKUST.
- **Dimitrios Giatsios:** Misbehavior in cross-layer network optimization, Nov. 2011; now a Ph.D. student at UTH.
- **Vasilios Miliotis:** Spectrum sensing algorithms in wireless cognitive networks, June 2008; now a senior researcher with UTH; was Ph.D. student at UPC, Barcelona.
- **George Iosifidis:** Peer-to-peer network optimization algorithms for utility maximization, May 2007, continued to Ph.D.
- **Konstantinos Aggelis:** Scheduling and beam-forming methods for maximum throughput in wireless networks, June 2005.

7.1.3. B.Sc. Theses supervised (Επίβλεψη διπλωματικών εργασιών)

- **Dimitrios Houliaras:** Implementation of SDN routing protocols, AUEB, ongoing.
- **Christos Harmantas:** Implementation of routing protocols in MANETs, AUEB, 2021.
- **George Cheirimos:** Mobile data sharing plans, AUEB, 2021.
- **Yiannis Fourfouris:** Image recognition applications for AR, AUEB 2020.
- **Zisis Biloroglou:** Image pre-processing and machine learning for drones, AUEB 2020.
- **Eleftherios Harteros:** Front platform development for a mobile app for breast image processing for cancer patients, AUEB 2019.
- **Aristides Pilichos:** Mobile app design for sharing economy in agricultural areas (AUEB, 2017).

- **Vassiiki Georgoudi:** Data analytics for recommendation systems (UTH, 2012); now with Nokia Networks, Greece.
- **Dimitrios Hatzopoulos:** Game theoretic approaches on the interference channel (2010).
- **George Kyriakou, Donatos Stavropoulos:** Collision discrimination algorithms in wireless LANs (co-supervised with T. Korakis) (2010)
- **Tryfon Trifonopoulos:** Coping with inaccurate state information in IEEE 4G 802.16m networks (2010)
- **George Zotos:** Backpressure delay aware algorithms for wireless networks (2009)
- **Stratos Keranidis, Vaggelis Galanis:** Implementation of Network Coding methods in wireless IEEE 802.11 cards (2008)
- **Vassiliki Hatz:** Distributed detection of attacks in wireless networks (2008)
- **Lazaros Gkatzikis:** Peer-to-peer network algorithms for file retrieval delay minimization (2006)
- **George Tihogiorgos:** Peer-to-peer network algorithms for file retrieval delay minimization (2006)
- **Apostolia Papapostolou:** Relay-assisted cooperative communications and networking (2006)
- **Ioanna Papafili:** Resource allocation and spatial processing techniques for wireless systems with multiple receiver antennas (2006)
- **Christos Zaharakopoulos:** QoS provisioning techniques in peer-to-peer networks (2005)
- **Dimitris Batzogiannis:** Joint 3-layer designs for wireless networks (2005)

7.1.4. Participation in Ph.D. committees (Συμμετοχή σε 7μελείς επιτροπές διδακτορικών διατριβών)

- Ioannis Kasdaridis, “Design, development and performance evaluation of ultra-low-power wireless sensor network devices”, UTH, 7/2021.
- Sylvie Kozeil, “From data collection to electric grid performance: How can data analytics support asset management decisions for an efficient transition toward smart grids?”, KTH, 4/2021.
- Virgilios Passas, “Design and implementation of resource allocation mechanisms in 5G heterogeneous wireless networks”, UTH, 3/2021.
- Marilena Minou, “Economic modeling and optimization of smart grids using demand response techniques”, AUEB, 7/2019.
- Georgios Tsaousoglou, “Demand-side management in smart grid: algorithmic, economic and game-theoretic aspects of active consumer participation”, NTUA, 3/2019.
- Anna Kefala, “Quality of Learner Experience in technology-mediated learning: a conceptual layered framework, model instantiation guidelines and empirical investigation”, AUEB, 1/2019.
- Yiannis Thomas, “Multi-path internet transport”, AUEB, 7/2018.
- Antonia Nasiakou, “Next generation energy markets and applications”, University of Thessaly, 3/2018.
- Spyros Papafragkos, “Performance analysis of distributed control algorithms in queueing systems”, AUEB, 12/2017.
- George Amanatidis, “Algorithmic and mechanism-design aspects of problems with limited or no payments”, AUEB, 8/2017.
- Luigi Vigneri, “Vehicles as a mobile cloud: Modeling, optimization and performance analysis”, Université Nice Sophia Antipolis, 7/2017.
- Harilaos Stais, “Congestion and error control for multi-party content distribution”, AUEB, 10/2016.

- Christos Tsilopoulos, "Multicast forwarding in future information-centric network architectures", AUEB, 3/2016.
- Konstantinos Poularakis, "Intelligent information caching in novel network architectures", UTH, 12/2015.
- Konstantinos Houmas, "Resource management in wireless ad-hoc networks", UTH, 9/2015.
- Vaggelis Douros, "Resource allocation and game theory in wireless networks", AUEB, 12/2014.
- Leandros Maglaras, "Message Dissemination in vehicular ad-hoc networks", UTH, 6/2014.
- Apostolos Apostolaras, "Design and implementation of resource allocation protocols in wireless networks, utilizing testbed experimentation platforms", UTH, 6/2014.
- Eleni Agiatzidou, "Incentive mechanisms for the enforcement of collaboration between ISPs", AUEB, 9/2013.
- Vassilis Sourlas, "Replication management and cache-aware routing in information-centric networking", UTH, 7/2013.
- Ioanna Papafili, "Incentive-based caching mechanisms for overlay Traffic Management", AUEB, 7/13.
- Alexandros Kostopoulos, "Research on Economic Mechanisms and Incentives for Technologies of Future Internet", AUEB, 10/2012.
- Pantelis Frangoudis, "User centrism in wireless networking", AUEB, 4/2012.
- Elli Kartsakli, "Cross-layer Design and Optimization of Medium Access Control Protocols for WLANs", University Polytechnic Catalonia (UPC), 2/2012.
- Christos Papathanasiou, "Radio resource management with Cross-layer designs in broadband wireless access", UTH, 12/2010.
- Anna Satsiou, "Cooperation and Fair Resource allocation in communication networks", UTH, 11/2010.
- Ioannis Socratous, "Generalized robust estimators for a class of systems", University of Cyprus, 8/2010.
- Dimitris Zisiadis, "Security and Network Management in modern telecommunications networks", UTH, 7/2010.
- Konstantinos Katsaros, "An information-centric overlay network architecture for content distribution and mobility support", AUEB, 07/2010.
- Filippos Koravos, "Resource allocation and defense against DoS attacks in peer-to-peer networks", UTH, 8/2008.
- George Athanasiou, "Cross-layer resource allocation algorithms in wireless networks", UTH, 6/2009.
- Sofie Pollin, "Cross-layer resource allocation for quality of service and energy optimization in wireless networks, Katholic University of Leuven, Belgium, 9/2006.
- Eleftherios Karipidis, "Transmit beam-forming to multiple co-channel multi-cast groups", Technical University of Crete, 08/2008.

7.2. Teaching Experience (Εμπειρία διδασκαλίας)

7.2.1. Core undergraduate courses (Βασικά προπτυχιακά μαθήματα)

- "Introduction to Computer Science" (AUEB, core 1st year undergraduate), Fall 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021.

- "Computer Systems Organization" (AUEB, core 2nd year undergraduate), Fall 2013, 2014, 2015, 2016, (co-teaching), 2017.
- EE 342 "Digital Communications", (UTH, 3rd year core undergraduate), Spring 2009, 2010.

7.2.2. Elective undergraduate courses (Προπτυχιακά μαθήματα επιλογής)

- "Performance analysis of networks and systems" (AUEB, undergraduate), Spring 2019, 2020, 2021, 2022.
- EE 568 "Network optimization" (UTH, 5th year undergraduate): one- and many-variable optimization, linear and non-linear programming, convex optimization, and their applications in network modeling and performance analysis. Fall 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011 (new course).
- EE 569 "Advanced topics in networking: Game theory" (UTH, 5th year undergraduate/colisted as graduate): game theory, Nash equilibria, auctions, and their applications in network modeling, Fall 2010 (new course).
- EE 440 "Wireless communications" (UTH, 3rd year undergraduate): wireless propagation modeling, channel access and signaling, power control. Spring 2003, 2005, 2006, 2007, 2012 (new course).
- EE 546 "Estimation and Detection Theory", (UTH, 4th year undergraduate), Spring 2008, 2009, 2010.
- EE 448 "Information and Coding Theory", (UTH, 5th year undergraduate), Fall 2006, 2007, 2011.
- EE 564 "Computer Networks II" (UTH, 4th year undergraduate) – Spring 2006 (co-teaching).
- "Advanced topics in Networking" (UTH, graduate), Fall 2004, 2006.
- EE 310 "Mathematics for Telecommunications" (UTH 3rd year undergraduate), Spring 2003.

7.2.3. Graduate courses (Μεταπτυχιακά μαθήματα)

- "Social Networks: Theory and practice" (AUEB, M.Sc. program on Computer Science), Spring 2019, 2020, 2021, 2022.
- "Recommender systems" (AUEB, M.Sc. program on Data Science); Spring 2019, 2020, 2021.
- "Machine Learning" (AUEB, M.Sc. programs on Computer Science and Information Systems), Spring 2018.
- "Mobile and pervasive systems" (AUEB, M.Sc. program on Information Systems), Spring 2013 (co-teaching), 2015, 2016 (co-teaching).
- "Performance analysis of networks and systems" (AUEB, M.Sc. program on Computer Science), Spring 2013 (co-teaching), 2014, 2016.
- "Estimation and Detection Theory", (UTH graduate), Fall 2008, 2009.
- EE 684 "Advanced topics in wireless communication networks (UTH, graduate): stochastic control, dynamic programming and Lyapunov optimization and their application in wireless network optimization problems. Spring 2011, 2012 (new course).

Lecture Notes (Διδακτικές σημειώσεις)

- I. Koutsopoulos, Lecture Notes, "Information and Coding Theory", University of Thessaly.
- I. Koutsopoulos, Lecture Notes, "Advanced topics on Networking", University of Thessaly.
- I. Koutsopoulos, Lecture Notes, "Wireless Communications", University of Thessaly.
- I. Koutsopoulos, Lectures Notes, "Estimation and Detection theory".

Miscellaneous related activities (Άλλες σχετικές δραστηριότητες)

- Coordination of translation team of book W. Stallings, "Network Security Essentials", 2005 – 2006.

- Coordination of translation team (in greek) of book D. Tse and P. Viswanath, “Fundamentals of Wireless Communications”, 2007-2008.
- Teaching Assistant for GRE Math / Analytical Topics, Hellenic American Union, Athens, Greece, 1996-1997.
- Student tutor for undergraduate courses in Engineering Probability, University of Maryland, College Park, 1998-1999.

7.3. Professional service (Υπηρεσία στην επιστημονική κοινότητα)

7.3.1. Conference/workshops TPC co-chair (Συμπροεδρεύων τεχνικής επιτροπής προγράμματος)

- International Symposium on Modeling and Optimization in Mobile, Ad-hoc and Wireless networks (WiOpt) 2020: TPC-cochair, with V. Subramanian and L. Huang.
- Special Session on “Mobile edge resource allocation for data analytics” in International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC) 2018: TPC co-chair, with G. Iosifidis.
- International Workshop on Resource Allocation and Cooperation in Wireless Networks (RAWNET), in WiOpt 2017: TPC co-chair, with C. Fischione, P. Giaccone.
- International Workshop on "Networking across disciplines: Communication networks, complex systems and statistical physics (NETSTAT), in IEEE ICC 2013: TPC co-chair, with D. Saad.
- International Workshop on Resource Allocation and Cooperation in Wireless Networks (RAWNET), in WiOpt 2012: TPC co-chair, with T. Alpcan.

7.3.2. Conference/workshop Technical Program Committee Member (Μέλος τεχνικής επιτροπής προγράμματος)

- IEEE INFOCOM 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021.
- ACM Int. Symp. on Mobile Adhoc Networking and Computing (MobiHoc), 2009, 2013, 2016, 2017, 2018, 2019, 2020, 2021, 2022.
- IEEE Int. Conf. on Smart Grid Communications (SmartGridComm), 2012.
- IEEE ICC, Cognitive Radio and AI-enabled network symposium, 2020.
- IEEE Mediterranean Conference on Communications and Networks (MedComNet), 2020.
- IEEE International Symposium on Modeling and Optimization in Mobile, Ad-hoc and Wireless networks (WiOpt) 2006, 2007, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2017, 2018, 2019, 2020.
- International workshop on Mining Data for Finance (MIDAS), in ECML/PKDD 2016, 2017, 2018, 2019.
- International Workshop on Resource Allocation, Cooperation and Competition in Wireless Networks (RAWNET), 2014.
- Int. Conf. on Telecommunications (ICT), 2011, 2019
- IEEE Conference on Decision and Control (CDC) 2019.
- International workshop on Mobile Applications (MobiApps), 2018 in MobiWIS 2018.
- International Workshop on Smart Edge Computing and Networking (SmartEdge), in IEEE International Conference on Pervasive Computing and Communications (PerCom), 2018.
- International Workshop on Sustainable Data Centres and Cloud Computing (SD3C), in IEEE/ACM International Conference on Utility and Cloud Computing (UCC 2017).
- IEE Int. Teletraffic Congress (ITC 29), 2017.

- ACM Conf. on Performance Evaluation Methodologies and Tools (VALUETOOLS) 2008, 2009, 2010, 2011, 2012.
- Int. Conf. on Design of Reliable Communication Networks (DRCN), 2018.
- 7th EAI Int. Conf. on Game Theory for Networks (GameNets) 2017.
- IEEE Wireless On-demand network systems and services Conference (WONS), 2016.
- IEEE Int. Conf. on Sensors and Ad-Hoc Communications and Networks (SECON) 2008, 2012.
- Int. Workshop on QoS (IWQoS) 2010, 2011, 2012.
- IEEE Int. Symp. on Personal Indoor Mobile Radio Communications (PIMRC), 2008, 2010, 2013, 2014, 2015, 2016.
- Conference on Decision and Game Theory for Security (GameSec) 2010, 2011.
- Int. Conf. on Network Games, Control and Optimization (NetGCoop), 2012, 2014, 2018.
- Workshop on Internet Trust, Reputation, Identity and Privacy, 2012.
- IEEE 1st Int. Black Sea Conf. on Communications and Networking (BlackSeaCom), 2013.
- IEEE Workshop on Novel Approaches to Energy Management and Evaluation in Wireless Networks, in conjunction with IEEE Int. Conf. on Communications (ICC), 2012.
- IEEE Int. Workshop on Signal Processing Advances in Wireless Communications (SPAWC), 2012, 2019.
- Int. Conf. on Testbed and Research Infrastructures for the development of networks and communities (TRIDENTCOM), 2011, 2012
- Int. Conf. on Computer Communication Networks (ICCCN), 2012.
- Consumer Communications and Networking Conference (CCNC) 2008, 2009
- IEEE Int. Conf. on Acoustics, Speech and Signal Processing (ICASSP), 2008, 2009, 2010, 2011, 2012
- Int. Symp. on a World on Wireless, Mobile and Multimedia Networks (WoWMoM), 2010
- IEEE Veh. Tech. Conf. (VTC), 2009, 2010
- Int. Conf. On Mobile Lightweight Wireless Systems (MOBILIGHT), 2010
- Tyrrhenian International Workshop on Digital Communications (TIWDC), 2009
- TPC Member, 1st International Workshop on Security for Mobile Wireless Communications (SeMIC) 2008.
- Workshop on Secure Network Protocols (NPsec), 2005, 2006, 2007, 2008
- Int. Symp. on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM), 2005, 2006.

7.3.3. Research proposals evaluation (Αξιολόγηση ερευνητικών προτάσεων)

- ERAPERMED workprogramme proposal evaluator.
- National research project proposal evaluator: State Scholarships Foundation (IKY), Education and Lifelong Learning (program of Reinforcement of postdoc researchers), GSRT
- Foreign research project proposal evaluator: Cyprus, Serbia, Netherlands, Canada, SFI Ireland, Italian Ministry of Education, Universities and Research (MIUR)

7.3.4. Other (Άλλα)

- **Journal Reviewer:** IEEE Transactions on Control of Network Systems, IEEE Transactions on Information Theory, IEEE Transactions on Smart Grid, IEEE/ACM Transactions on Networking, IEEE Transactions on Mobile Computing, IEEE Transactions on Wireless Communications, IEEE Transactions on Parallel and Distributed Systems, IEEE Transactions on Network Science and

Engineering, IEEE Communication Surveys and Tutorials, IEEE Transactions on Network and Service Management, IEEE Communications Letters, IEEE Transactions on Information Forensics and Security, IEEE Transactions on Signal Processing, IEEE Journal on Selected Areas on Communications, ACM Transactions on Knowledge Discovery, IEEE Transactions on Communications, EURASIP Signal Processing Journal, EURASIP Journal on Wireless Communications and Networking, Elsevier Wireless Networks, Virtual Reality (VIRE).

- **Conference Reviewer:** IEEE INFOCOM, IEEE International Symposium on Information Theory (ISIT), ACM SIGMETRICS, ACM MOBICOM, ACM MobiHoc, IEEE WiOpt, IEEE International Conference on Acoustics Speech and Signal Processing (ICASSP), IEEE ICC, IEEE GLOBECOM, IEEE WCNC, IEEE CDC.
- **Senior Member of IEEE** (currently in Communications society; was in Information Theory and Signal Processing societies as well)
- **Member of Technical Chamber of Greece** (T.E.E).
- **Local Arrangements Chair** in Information Theory Workshop (ITW), 2009, Volos, Greece.

8. Administrative tasks (Διοικητικά καθήκοντα)

8.1. Faculty search and evaluation committees (Τριμελείς εισηγητικές επιτροπές)

- Member of evaluation/selection committee for an Association Professor position in the area of “Theory and applications of algorithms” (AUEB, 2021)
- Member of evaluation/selection committee for an Association Professor position in the area of “Theoretical Computer Science with emphasis on Analysis of Algorithms” (AUEB, 2019)
- Member of evaluation and selection committee for an Associate Professor position in the area of “Applied Mathematics and Probability in Computer Science” (AUEB, 2019)
- Member of tenure evaluation committee for a faculty member in the area of “Mathematical Models for Information and Decision systems” (AUEB, 2019)
- Member of evaluation and selection committee for a Lecturer position in the area of “Telecommunication systems: Design and implementation” (UTH, 2009)
- Member of evaluation and selection committee for a Lecturer position in the area of “Telecommunication systems: data transmission algorithms” (UTH, 2009)

8.2. Departmental duties and committees (Επιτροπές και Καθήκοντα τμήματος)

- Director of the Computer and Communications Systems Division, Department of Informatics (AUEB, 2020-present)
- Member of Ph.D. studies committee. Responsible for drafting the rules in the Ph.D. studies handbook, evaluating Ph.D. applications and for monitoring the progress and coursework of Ph.D. students (AUEB, 2016-present)
- Member of the external student entrance exam Committee. Responsible for coordinating the process of yearly exams taken by graduates of other disciplines who wish to enroll to the undergraduate program of the department of Informatics at AUEB (AUEB, 2013-present)
- Member of Committee for inter-university student transfer. The role of the committee was to examine applications of undergraduate students for inter-university transfer, check corresponding social criteria, and accept or reject applications (AUEB, 2017-present)

- Member of the Department publicity and public relations Committee (AUEB, 2016-present)
- Member of Committee for inter-university student transfer. The role of the committee was to examine applications of undergraduate students for inter-university transfer, check corresponding social criteria, and accept or reject applications (UTH, 2005-2013)

8.3. University committees (Επιτροπές πανεπιστημίου)

- Member of committee to explore participation of AUEB in a consortium proposal for the European Universities Call 2020 (AUEB, 2019)
- Member of acceptance committee for AUEB new building, Athens (AUEB, 2017)
- Committee member for university technical contest coordination (specification checking, candidate offers evaluation, selection) (AUEB, 2014-2016)

9. Brief Curriculum Vitae (Σύντομο βιογραφικό)

Iordanis Koutsopoulos is Professor at the Department of Informatics of Athens University of Economics and Business (AUEB) since September 2021.

He was born on December 17, 1974 in Athens, Greece. He obtained the Diploma in Electrical and Computer Engineering from the National Technical University of Athens (NTUA), Athens, Greece, in 1997, and the M.Sc. and Ph.D. degrees in Electrical and Computer Engineering from University of Maryland College Park (UMCP) in 1999 and 2002 respectively.

He has been Associate and Assistant Professor at the Department of Informatics of Athens University of Economics and Business (2016-2021 and 2013-2016 respectively). He has been Assistant Professor (2010-2013), Lecturer (2005-2010) and Adjunct Lecturer (2003-2005) with the Department of Computer Engineering and Communications (now Department of Electrical and Computer Engineering) of University of Thessaly. From 2005 to 2015 he was affiliated as senior research staff with the with Center for Research and Technology Hellas, Institute for Telematics and Informatics (CERTH-ITI).

During his sabbatical in Fall 2012 he was a visiting research scientist with Yahoo! Research Labs, Barcelona, Spain. During the summer of 2005, he held a visiting scientist position with the University of Washington, Seattle, USA. He has held internship positions with Hughes Network Systems (HNS), Germantown, MD, Hughes Research Laboratories LLC, Malibu, CA, and Aperto Networks Inc., Milpitas, CA, in the summers of 1998, 1999 and 2000 respectively. From 1997 to 2002 he was a Fulbright Fellow. From 1997 to 2002 he was a Graduate Research Assistant with the Institute of Systems Research (ISR) of UMCP.

He was awarded a European Research Council (ERC) runner-up award (co-funded by Greece and the European Union / European Social Fund) through the Operational Program "Education and lifelong learning" for the project "RECITAL: Resource Management for Self-coordinated Autonomic Wireless Networks", €690K (single investigator), for the period 2012-2015. For the period 2005-2007 he was awarded a Marie Curie International Reintegration Grant (IRG).

He has received 3 best-paper awards for papers in the IEEE ECOFEC workshop 2019 (held in conjunction with IEEE INFOCOM), in the ACM HotPost workshop 2016 (held in conjunction with ACM Mobihoc), and in the ACM WinTECH 2013 workshop (held in conjunction with ACM Mobicom). He has co-authored more than 160 research papers which have attracted over 5.000 citations, forming an h-index of 32. He has attracted about €5.75M of funding from European, national and private funding

sources. He has been PI, co-PI and technical coordinator for several H2020 and FP7 European projects and for national projects.

His research interests are in the broad area of network systems control and optimization with applications to wireless networks, mobile crowdsensing, edge computing and analytics, cloud computing systems, network economics, and the smart grid. More recently his research interests also span applied machine learning, recommender systems and online advertising.