

Dr. Eirini Eleni Tsiropoulou

University of New Mexico
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Revised: March 2019

Education

- **Ph.D, National Technical University of Athens (NTUA)**
School of Electrical and Computer Engineering(ECE), Athens, Greece, July 2014

Thesis title: “Optimal Resource Allocation in Multi-Service Next Generation Wireless Networks”,
Advisor: Professor Symeon Papavassiliou

- **MBA, Project Management, Business Administration (summa cum laude, 9.07/10, top 3% of the year)**
School of Electrical and Computer Engineering, National Technical University of Athens, Greece, 2010

Thesis title: “Design and Analysis of Emissions from the Electricity and Combined Heat and Power Sectors in an International Perspective through the Mathematical Model Balmorel”,
Advisors: Associate Professors Georgios Matsopoulos and Dimitrios Askounis

- **Diploma in Electrical and Computer Engineering (summa cum laude, 9.06/10, top 3% of the year)**
School of Electrical and Computer Engineering, National Technical University of Athens, Greece, 2008
(5 year degree)

Thesis title: “Game Theoretic Distributed Uplink Power Control for CDMA Networks with Real-Time Services”
Advisor: Professor Symeon Papavassiliou

Work Experience

- **Assistant Professor** Department of Electrical and Computer Engineering, University of New Mexico
July 2017 - present
- **Postdoctoral Associate** Institute for Systems Research, Department of Electrical and Computer Engineering, University of Maryland
June 2016 - June 2017
- **Postdoctoral Associate** Erik Jonsson School of Engineering and Computer Science, University of Texas at Dallas
January 2016 - June 2016
- **Postdoctoral Research Fellow**, NETwork Management and Optimal DEsign Laboratory, School of Electrical and Computer Engineering, National Technical University of Athens
August 2014 - December 2015
- **Research Assistant**, NETwork Management and Optimal DEsign Laboratory, School of Electrical and Computer Engineering, National Technical University of Athens
Oct 2008 - April 2014

Teaching Experience

- **ECE 341 Communication Systems** (Undergraduate Course - University of New Mexico - **Fall 2018 (42 students)**)
- **ECE 440 / CS 485 Introduction to Computer Networks** (Undergraduate Course - University of New Mexico - **Spring 2018 (49 students), Spring 2019 (16 students)**)
- **ECE 595 Network Economics** (ECE 595 - Graduate Course - University of New Mexico - **Fall 2017 (5 students), Spring 2019 (20 students)**)
- Stochastic Control (ENEE 762 - Graduate Course, co-instructor - University of Maryland - Fall 2016)
- Mobile Personal Communications (Graduate course, co-instructor - National Technical University of Athens - Fall 2014, 2015)
- Self - organizing Ad hoc Networks (Graduate course, co-instructor - National Technical University of Athens - Spring 2014, 2015)
- Stochastic Systems and Communications (Undergraduate course, Teaching Assistant - National Technical University of Athens - Fall 2014, 2015)
- Queuing Theory and Applications (Undergraduate course, Teaching Assistant - National Technical University of Athens - Spring 2014, 2015)

Research Interests

- Resource Allocation & Optimization in Interdependent Resource-constrained Networks
- Public Safety Systems
- Socio-physical Modeling of Humans' Behavior
- Game Theory and Network Utility Maximization Theory
- Reinforcement Learning
- Quality of Experience
- Network Economics and Smart Data Pricing
- Personalization, Recommendation and Quality of Experience
- Cyber-physical Systems, Internet of Things, RFID technology, Passive Tag-to-Tag Communication
- M2M and D2D Communications, Public Safety Networks
- Smart Grid Networks

Honors, Awards, & Scholarships

- **NSF Travel Grant** to attend 2018 NSF Smart and Connected Communities (S&CC) Aspiring PI Workshop, Kansas City, MO.
- **N² Women Chair organizing the N² Women workshop at the 20th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM) 2019, Washington DC, USA.**
- **N² Women: Rising Stars in Networking and Communications Award, 2017.**

- **Susan Frazier Postdoctoral Researcher Travel Award** by Institute for Systems Research, Department of Electrical & Computer Engineering, University of Maryland, College Park, **May 2017**.
- **Best Paper Award** in the 7th International Conference on Ad Hoc Networks (LNCS) Springer (**ADHOCNETS 2015**) for the paper: E.E. Tsiropoulou, I. Ziras and S. Papavassiliou, "Service Differentiation and Resource Allocation in SC-FDMA Wireless Networks through User-Centric Distributed Non-Cooperative Multilateral Bargainings," **September 2015**.
- **Best Paper Award** in the IEEE Wireless Communications and Networking Conference (**WCNC 2012**) for the paper: E.E. Tsiropoulou, P. Vamvakas, and S. Papavassiliou, "Energy Efficient Uplink Joint Resource Allocation Non-cooperative Game with Pricing," **April 2012**.
- **Student Conference Travel Grant**, (IWCMC 2009), Organization: National Technical University of Athens, **June 2009**.
- **Annual Award from the Greek State Scholarships Foundation**, Awarded to the top student of the dept. of Electrical and Computer Engineering (ECE), National Technical University of Athens, Greece, **2007-2008**.
- **Awards of Excellence in High School**, 12 in total, from the Ministry of Education, **1998-2003**.

Research & Development Experience and Project Funding

- **NSF Travel Grant** to attend 2018 NSF Smart and Connected Communities (S&CC) Aspiring PI Workshop, Kansas City, MO.
- Title: "Redefining resource Allocation in Advanced wireless systems (RATIONALE)" Funding organization: University of New Mexico Women in STEM Faculty Development Fund. June 2018 - June 2019 (**PI**).
- Title: "HEterogeneous wireless Network Utility Maximization (HELENIUM)" Funding organization: RAC Grant Awards. March 2018- May 2019 (**PI**).
- Title: "Personalized Documentary Creation based on Automatically Annotated Content" Funding organization: EU. 2015-2017 (**Co-Investigator**).
- Title: "Multimedia Content Annotations for Rapid Exploitation in Multi-Screen Environments ". Funding organization: EU. 2015-2016 (**Co-Investigator**).
- Title: "Foundations of Advanced Networking by means of Network Utility Maximization (FAN-of-NUM) ". This research is co-financed by the European Union (European Social Fund) and Hellenic national funds through the Operational Program 'Education and Lifelong Learning' (2012-2015) (**Co-Investigator**).
- Title: "3DTV Content Search (3DTVS)". Funding organization: EU, Seventh Framework Programme (FP7) 2011-2015.
- Title: "Design and evaluation of autonomic mechanisms for supporting user Quality of Experience (QoE)" Funding organization: VELTI S.A. Duration: 11/2009-05/2011.
- Title: "Exposing the features in IP version six protocols that can be exploited for the purposes of designing/building autonomic networks and services (EFIPSANS)". Funding organization: Information Society Technologies, EU, Seventh Framework Programme (FP7). Duration: 01/2008-03/2011.

Publications

Journal Publications

1. Athina Thanou, Eirini Eleni Tsiropoulou, and Symeon Papavassiliou. Quality of experience under a prospect theoretic perspective: A cultural heritage space use case. *IEEE Transactions on Computational Social Systems*, 2019
2. Dimitrios Sikeridis, Eirini Eleni Tsiropoulou, Michael Devetsikiotis, and Symeon Papavassiliou. Context-aware wireless-protocol selection in heterogeneous public safety networks. *IEEE Transactions on Vehicular Technology*, 68(2):2009–2013, 2019
3. Georgios Fragkos, Pavlos Athanasios Apostolopoulos, and Eirini Eleni Tsiropoulou. Escape: Evacuation strategy through clustering and autonomous operation in public safety systems. *Future Internet*, 11(1):20, 2019
4. Dimitrios Sikeridis, Eirini Eleni Tsiropoulou, Michael Devetsikiotis, and Symeon Papavassiliou. Energy-efficient orchestration in wireless powered internet of things infrastructures. *IEEE Transactions on Green Communications and Networking*, 2018
5. Pavlos Athanasios Apostolopoulos, Eirini Eleni Tsiropoulou, and Symeon Papavassiliou. Demand response management in smart grid networks: A two-stage game-theoretic learning-based approach. *Mobile Networks and Applications*, pages 1–14, 2018
6. Dimitrios Sikeridis, Eirini Eleni Tsiropoulou, Michael Devetsikiotis, and Symeon Papavassiliou. Wireless powered public safety iot: A uav-assisted adaptive-learning approach towards energy efficiency. *Journal of Network and Computer Applications*, 123:69–79, 2018
7. Panagiotis Vamvakas, Eirini Eleni Tsiropoulou, and Symeon Papavassiliou. A user-centric economic-driven paradigm for rate allocation in non-orthogonal multiple access wireless systems. *EURASIP Journal on Wireless Communications and Networking*, 2018(1):129, 2018
8. E. E. Tsiropoulou, K. Koukas, S. Papavassiliou, "A Socio-physical and Mobility-Aware Coalition Formation Mechanism in Public Safety Networks," in EAI Endorsed Transactions on Future Internet, vol. 18, no. 13, 2018. DOI: 10.4108/eai.12-1-2018.154176
9. E. E. Tsiropoulou, G. Mitsis, S. Papavassiliou, "Interest-aware Energy Collection & Resource Management in Machine to Machine Communications," in Elsevier, Ad Hoc Networks, vol. 68, pp. 48-57, 2018.
10. Panagiotis Vamvakas, Eirini Eleni Tsiropoulou, and Symeon Papavassiliou. Dynamic provider selection & power resource management in competitive wireless communication markets. *Mobile Networks and Applications*, 23(1):86–99, 2018
11. Eleni Stai, Stella Kafetzoglou, Eirini Eleni Tsiropoulou, and Symeon Papavassiliou. A holistic approach for personalization, relevance feedback & recommendation in enriched multimedia content. *Multimedia Tools Appl.*, 77(1):283–326, January 2018
12. G. Katsinis, E. E. Tsiropoulou, S. Papavassiliou, "Multicell Interference Management in Device to Device Underlay Cellular Networks," *Future Internet*, MDPI, vol. 9, no. 3, pp. 1- 20, 2017.
13. Eirini Eleni Tsiropoulou, Athina Thanou, and Symeon Papavassiliou. Quality of experience-based museum touring: A human in the loop approach. *Social Network Analysis and Mining*, 7(1):33, 2017
14. E.E. Tsiropoulou, J. Baras, S. Papavassiliou, S. Sinha, "RFID-based Smart Parking Management System," *Cyber-Physical Systems*, Taylor & Francis, pp. 1-20, 2017.
15. E. E. Tsiropoulou, P. Vamvakas, S. Papavassiliou, "Joint Customized Price and Power Control for Energy-Efficient Multi-Service Wireless Networks via S-Modular Theory," in *IEEE Transactions on Green Communications and Networking*, vol. 1, no. 1, pp. 17-28, 2017.

16. E. E. Tsiropoulou, P. Vamvakas, S. Papavassiliou, "Supermodular Game-based Distributed Joint Uplink Power & Rate Allocation in Two-Tier SC-FDMA Femtocell Networks," in *IEEE Transactions on Mobile Computing*, vol. 16, no. 9, pp. 2656-2667, 2016.
17. G. Katsinis, E. E. Tsiropoulou, S. Papavassiliou, "Joint Resource Block and Power Allocation for Interference Management in Device to Device Underlay Cellular Networks: A Game Theoretic Approach," in *Mobile Networks and Applications*, Springer, pp. 1-13, 2016.
18. E. E. Tsiropoulou, A. Kapoukakis, S. Papavassiliou, "Uplink Resource Allocation in SC-FDMA Wireless Networks: A Survey and Taxonomy," *Computer Networks*, Elsevier, vol. 96, pp. 1-28, 2016.
19. E. E. Tsiropoulou, I. Ziras, S. Papavassiliou, "A Non-Cooperative Approach to the Joint Subcarrier and Power Allocation Problem in Multi-Service SCFDMA Networks," *EAI Endorsed Transactions on Mobile Communications and Applications*, 2015. DOI: 10.4108/eai.20-6-2016.151515 (*invited paper*).
20. E. E. Tsiropoulou, P. Vamvakas, G. Katsinis, S. Papavassiliou, "Combined Power and Rate Allocation in Self-Optimized Multi-Service Two-Tier Femtocell Networks," *Computer Communications*, Elsevier, vol. 72, pp. 38-48, 2015.
21. E.E. Tsiropoulou, E. Stai, S. Kafetzoglou, K. Rapantzikos, S. Papavassiliou, M. Zwicklbauer, P. van Leeuwen, V. Karampali, "Multimedia Content Annotations for Rapid Exploitation in Multi-Screen Environments: The MECANEX project vision," *IEEE STCSN E-LETTERS*, 2015.
22. E. E. Tsiropoulou, G. Katsinis and S. Papavassiliou, "Distributed Uplink Power Control in Multi-Service Wireless Networks via a Game Theoretic Approach with Convex Pricing ," in *IEEE Transactions on Parallel and Distributed Systems*, Vol. 23, Issue 1, pp. 61-68, 2012.
23. E.E. Tsiropoulou, P. Vamvakas, and S. Papavassiliou, "Joint Utility-based Uplink Power and Rate Allocation in Wireless Networks: A Non-cooperative Game Theoretic Framework," *Elsevier Physical Communications Journal*, vol. 9, pp. 299-307, 2012.
24. E. E. Tsiropoulou and S. Papavassiliou, "Utility-based Uplink Joint Power & Subcarrier Allocation in SC-FDMA Wireless Networks," in *International Journal of Electronics*, Taylor & Francis, Vol. 98, Issue 11, pp. 1581-1587, 2011.
25. E. E. Tsiropoulou, T. Kastrinogiannis, and S. Papavassiliou, "QoS-Driven Uplink Power Control in Multi-Service CDMA Wireless Networks - A Game Theoretic Framework," *Journal of Communications*, Academy Publisher, vol. 4, No 9, pp. 654-668, Oct. 2009.

Conference Publications

1. P. Vamvakas, E.E. Tsiropoulou, and S. Papavassiliou, "Dynamic Spectrum Management in 5G Wireless Networks: A Real-Life Modeling Approach," *IEEE INFOCOM 2019*.
2. P. Vamvakas, E.E. Tsiropoulou, S. Papavassiliou, "A Market-based Modular Service Composition Approach for Flexibility and Adaptability in Future Wireless Networks," *IEEE INFOCOM WKSHPS - 3rd Workshop on Flexible and Agile Networks: 5G and Beyond (FlexNets)*, 2019.
3. P. Vamvakas, E.E. Tsiropoulou, S. Papavassiliou, "On the Prospect of UAV-assisted Communications Paradigm in Public Safety Networks," *IEEE INFOCOM WKSHPS: WCNEE 2019: Wireless Communications and Networking in Extreme Environments*, 2019.
4. Panagiotis Vamvakas, Eirini Eleni Tsiropoulou, and Symeon Papavassiliou. Personalized pricing for efficient user-centric multi-resource control in 5g wireless networks. In *2018 IEEE 19th International Symposium on A World of Wireless, Mobile and Multimedia Networks (WoWMoM)*, pages 1–6. IEEE, 2018
5. Dimitrios Sikeridis, Eirini Eleni Tsiropoulou, Michael Devetsikiotis, and Symeon Papavassiliou. Socio-spatial resource management in wireless powered public safety networks. In *MILCOM 2018-2018 IEEE Military Communications Conference (MILCOM)*, pages 810–815. IEEE, 2018

6. Pavlos Athanasios Apostolopoulos, Eirini Eleni Tsiropoulou, and Symeon Papavassiliou. Game-theoretic learning-based qos satisfaction in autonomous mobile edge computing. In *2018 Global Information Infrastructure and Networking Symposium (GIIS)*, pages 1–5. IEEE, 2018
7. Symeon Papavassiliou, Athina Thanou, and Eirini Eleni Tsiropoulou. Cultural location touring framework: A roadmap based on qoe modeling and visitor real-life behavioral choices. *Proc. CIRA EuroMed*, pages 76–83, 2018
8. D. Sikeridis, E.E. Tsiropoulou, M. Devetsikiotis, and S. Papavassiliou, "Self-Adaptive Energy Efficient Operation in UAV-assisted Public Safety Networks," in *IEEE 19th International Workshop on Signal Processing Advances in Wireless Communications (SPAWC)*, June, 2018.
9. P.Vamvakas, E.E. Tsiropoulou, S. Papavassiliou, "Personalized Pricing for Efficient User-centric Multi-Resource Control in 5G Wireless Networks," in *IEEE WoWMoM - Workshop on User-centric service provisioning over 5G networks (USEPRO'18)*, June, 2018.
10. M. Fasoulakis, E.E. Tsiropoulou, S. Papavassiliou, "A New Theoretical Evaluation Framework for Satisfaction Equilibria in Wireless Networks," in *Second International Balkan Conference on Communications and Networking 2018*, June, 2018.
11. D. Sikeridis, E.E. Tsiropoulou, M. Devetsikiotis, and S. Papavassiliou, "Socio-physical Energy-Efficient Operation in the Internet of Multipurpose Things," in *IEEE ICC 2018*, May, 2018.
12. G. Katsinis, E.E. Tsiropoulou, and S. Papavassiliou, "On the Performance Evaluation of Distributed Resource Block and Power Allocation in D2D-enabled Multi-Cell Networks," in *Proceedings of ACM International Symposium on Performance Evaluation of Wireless Ad Hoc, Sensor, and Ubiquitous Networks*, November, 2017.
13. P.Vamvakas, E.E. Tsiropoulou, M. Vomvas, S. Papavassiliou, "Adaptive Power Management in Wireless Powered Communication Networks: A User-Centric Approach," *IEEE 38th Sarnoff Symposium*, Sept. 2017.
14. E.E. Tsiropoulou, A. Thanou, S.T. Paruchuri, S. Papavassiliou, "Self-organizing Museum Visitor Communities: A Participatory Action Research based Approach," *12th International Workshop on Semantic and Social Media Adaptation and Personalization (SMAP)*, July, 2017.
15. P.Vamvakas, E.E. Tsiropoulou, S. Papavassiliou, J. Baras, "Optimization and Resource Management in NOMA Wireless Networks Supporting Real and Non-real Time Service Bundling," *22nd IEEE Symposium on Computers and Communications (ISCC)*, July, 2017.
16. E.E. Tsiropoulou, S.T. Paruchuri, J. Baras, "Interest, Energy and Physical-Aware Coalition Formation and Resource Allocation in Smart IoT Applications," *51st Annual Conference on Information Sciences and Systems (CISS)*, March, 2017.
17. E.E. Tsiropoulou, J. Baras, S. Papavassiliou, G. Qu, "On the Mitigation of Interference Imposed by Intruders in Passive RFID Networks," *Conference on Decision and Game Theory for Security (GameSec)*, November, 2016.
18. E.E. Tsiropoulou, A. Thanou, S. Papavassiliou, "Modelling Museum Visitors Quality of Experience," *11th International Workshop on Semantic and Social Media Adaptation and Personalization (SMAP)*, October, 2016.
19. E.E. Tsiropoulou, I. Gialagkolidis, P. Vamvakas, and S. Papavassiliou, "Resource Allocation in Visible Light Communication Networks: NOMA vs OFDMA Transmission Techniques," in *International Conference on Ad Hoc Networks (LNCS) Springer*, July, 2016.
20. E.E. Tsiropoulou, V. Karampali, P. van Leeuwen, K. Rapantzikos, S. Kafetzoglou, E. Stai, "Multimedia Content Annotations for Rapid Exploitation in Multi-screen Environments - MECANEX," *IBC Conference*, September, 2015.

21. E.E. Tsiropoulou, I. Ziras and S. Papavassiliou, "Service Differentiation and Resource Allocation in SC-FDMA Wireless Networks through User-Centric Distributed Non-Cooperative Multilateral Bargaining," in 7th International Conference on Ad Hoc Networks (LNCS) Springer, September, 2015. **(Best Paper Award)**
22. V. Pouli, S. Kafetzoglou, E.E. Tsiropoulou, A. Dimitriou, S. Papavassiliou, "Personalized Multimedia Content Retrieval through Relevance Feedback techniques for Enhanced User Experience," in IEEE 13th International Conference on Telecommunications (CONTEL), July, 2015.
23. G. Katsinis, E.E. Tsiropoulou, and S. Papavassiliou, "On the Problem of Resource Allocation and System Capacity Evaluation via a Blocking Queuing Model in D2D enabled Overlay Cellular Networks," in Ad-hoc, Mobile and Wireless Networks (LNCS) Springer, June, 2015.
24. G. Katsinis, E.E. Tsiropoulou and S. Papavassiliou, "A Game Theoretic Approach to the Power Control in D2D Communications Underlay Cellular Networks," IEEE International Workshop on Computer-Aided Modeling Analysis and Design of Communication Links and Networks (CAMAD), Athens, Greece, 2014.
25. E.E. Tsiropoulou, G. Katsinis, A. Filios, and S. Papavassiliou, "On the Problem of Optimal Cell Selection & Uplink Power Control in Open Access Multi-Service Two-Tier Femtocell Networks," in Ad-hoc, Mobile and Wireless Networks (LNCS) Springer, June, 2014.
26. E.E. Tsiropoulou, G. Katsinis, P. Vamvakas, and S. Papavassiliou, "Efficient Uplink Power Control in Multi-Service Two-Tier Femtocell Networks via a Game Theoretic Approach," IEEE International Workshop on Computer-Aided Modeling Analysis and Design of Communication Links and Networks (CAMAD), Berlin, 2013.
27. E. E. Tsiropoulou, A. Kapoukakis and S. Papavassiliou, "Energy-efficient Subcarrier Allocation in SC-FDMA Wireless Networks based on Multilateral Model of Bargaining," IFIP Networking 2013, Brooklyn, 2013.
28. E.E. Tsiropoulou, P. Vamvakas, and S. Papavassiliou, "Energy Efficient Uplink Joint Resource Allocation Non-cooperative Game with Pricing," in Proc. of IEEE Wireless Communications and Networking Conference (WCNC 2012), April, 2012. **(Best Paper Award)**
29. E.E. Tsiropoulou, G. Katsinis, and S. Papavassiliou, "Utility-based Power Control via Convex Pricing for the Uplink in CDMA Wireless Networks," European Wireless 2010, April, 2010.
30. E. E. Tsiropoulou, T. Kastrinogiannis, and S. Papavassiliou, "Realization of QoS Provisioning in Autonomic CDMA Networks under Common Utility-Based Framework," in Proc. of IEEE WoWMoM workshop on Autonomic and Opportunistic Communications (AOC), June, 2009.
31. E.E. Tsiropoulou, T. Kastrinogiannis, and S. Papavassiliou, "A Utility-based Power Allocation Non-cooperative Game for the Uplink in Multi-Service CDMA Wireless Networks," Proc. of IEEE International Wireless Communications and Mobile Computing Conference, pp. 365-370, Leipzig, Germany, June, 2009.
32. T. Kastrinogiannis, E. E. Tsiropoulou, and S. Papavassiliou, "Utility-Based Uplink Power Control in CDMA Wireless Networks with Real-Time Services," in Ad-hoc, Mobile and Wireless Networks (LNCS) Springer, vol. 5198, p.p. 307-320, September, 2008.
33. G. I. Tsiropoulos, D. G. Stratogiannis, E. E. Tsiropoulou and P. G. Cottis, "Energy Distribution Networks Evolution towards Smart Grid Networks Incorporating Power Line Communications Technology & Services," in Proc. WSPLC 2008.

Book Chapters

1. E. E. Tsiropoulou, P. Vamvakas, S. Papavassiliou, "Resource Allocation in Multi-tier Femtocell and Visible-Light Heterogeneous Wireless Networks," Book Chapter in "Resource Allocation in Next-Generation Broadband Wireless Access Networks" Book, Editors: Chetna Singhal and Swades De, 2016.

2. E. Stai, V. Karyotis, G. Katsinis, E.E. Tsiropoulou and S. Papavassiliou, "A Hyperbolic Big Data Analytics Framework within Complex and Social Networks," Book Chapter in " Big Data in Complex and Social Networks " Handbook, Editors: M. T. Thai, W. Wu, and H. Xiong, CRC Press - Taylor & Francis Group, Boca Raton, FL, USA, 2015.
3. E.E. Tsiropoulou, T. Kastrinogiannis and S. Papavassiliou, "Non-cooperative Power Control in CDMA Wireless Networks," in "Game Theory for Wireless Communications and Networking" book, Auerbach Publications, CRC Press, Taylor & Francis Group, 2010.
4. G. I. Tsiropoulos, D. G. Stratogiannis and E.E. Tsiropoulou, Mobile and Wireless Communications Network layer and circuit level design, Chapter 1: Call Admission Control in Mobile and Wireless Networks, pp. 1-26, INTECH, January 2010.

Professional Services

Executive Committee Positions

- Associate Editor: Computer Networks, Elsevier
- Newsletter Chair: Social Networks Technical Committee, IEEE
- Special Issue Co-Editor: "5G Enabled Internet of Things Applications and Services", Computer Networks, Elsevier
- Demonstration Chair: 20th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM), 2019
- N² WOMEN Chair: 20th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM), 2019
- Publicity Chair and TPC Member: 20th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM), 1st International Workshop on Data Distribution in Industrial and Pervasive Internet, 2019
- Editorial Board Member: Future Internet, MDPI
- Workshop on Mobile Computing and Networking Technologies 2009 (WMCNT 2009), <http://wmcnt09.ntua.gr>, St. Petersburg, Russia, October 2009. (Workshop General Co-Chair)
- Workshop on Mobile Computing and Networking Technologies 2010 (WMCNT 2010), <http://wmcnt.ntua.gr>,
- Workshop on Mobile Computing and Emerging Communication Networks 2010 (MCECN 2010), <http://mcecn.ntua.gr>, Miami, Florida, USA, December 2010. (Workshop General Chair)
- Workshop on Mobile Computing and Emerging Communication Networks 2011 (MCECN 2011), <http://mcecn.ntua.gr>, Houston, Texas, USA, December 2011. (Workshop General Chair)
- Workshop on Mobile Computing and Networking Technologies 2011 (WMCNT 2011), <http://wmcnt.ntua.gr>, Budapest, Hungary, October 2011. (Workshop General Co-Chair)
- Workshop on Mobile Computing and Networking Technologies 2012 (WMCNT 2012), <http://wmcnt.ntua.gr>, St. Petersburg, Russia, October 2012. (Workshop General Co-Chair)

Technical Program Committee Membership

- 5th International Conference on Smart Computing (SMARTCOMP), 2019
- European Conference on Networks and Communications (EuCNC), 2019
- 28th International Conference on Computer Communications and Networks, Hot Topics in Networking (HOT), 2019
- IEEE 5th World Forum on Internet of Things, 2019
- IEEE Global Communications Conference (GLOBECOM), SELECTED AREAS IN COMMUNICATIONS (SAC) SYMPOSIUM, Internet of Things, 2019
- 20th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM), 5th IEEE International workshop on Communication, Computing, and Networking in Cyber Physical Systems, 2019
- International Balkan Conference on Communications and Networking, 2019
- IEEE International Conference on Network Protocols, September 24-27, 2018, Cambridge, UK
- IEEE Global Communications Conference (GLOBECOM), workshop on Communication, Computing, and Networking in Cyber Physical Systems (CCNCPS 2018), 9-13 December 2018, Abu Dhabi, UAE
- IEEE Workshop on Cognitive Networks (CogniNets'18), October 1-4, 2018, Chicago, USA
- IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC 2018), 9-12 September 2018 - Bologna, Italy
- The 16th International Conference on Ad Hoc Networks and Wireless, AdHoc-Now 2017, Springer, 20-22 Sep. 2017, Messina, Italy
- The Sixth International Conference on Advances in Vehicular Systems, Technologies and Applications, IARIA, July 23 - 27, 2017, Nice, France
- IEEE WoWMoM 2017, International Workshop on Small Cell Networking for 5G, June 12-15, 2017, Macau, China
- IEEE 85th Vehicular Technology Conference, VTC2017-Spring, Track: Wireless Access Technology and Heterogeneous Networks, June 4-7, 2017, Sydney, Australia
- IEEE 84th Vehicular Technology Conference, VTC2016-Fall, Track: Radio Access Technology, LTE, 5G, and Wireless Heterogeneous Networks, September 18-21, 2016, Montreal, Canada
- IEEE 83rd Vehicular Technology Conference , VTC2016-Spring, Track: LTE/LTE-A, 5G, and Wireless Heterogeneous Networks, May 15-18, 2016, Nanjing, China
- IEEE 82nd Vehicular Technology Conference, VTC2015-Fall, Track: Cellular Networks, September 6-9, 2015, Boston, USA
- Ad-Hoc Now 2014, June 22-27, 2014, Benidorm, Spain (Technical Program Committee Member)
- Ad-Hoc Now 2013, July 08-10, 2013, Wroclaw, Poland (Technical Program Committee Member)
- Ad-Hoc Now 2012, July 09-11, 2012, Belgrade, Serbia (Technical Program Committee Member)
- MCECN 2010, 2011 Workshop on Mobile Computing and Emerging Communication Networks (General Co-Chair)
- WMCNT 2009, 2010, 2011, 2012 Workshop on Mobile Computing and Networking Technologies (General Co-Chair)

Local Arrangements Co-Chair

- Ad-Hoc Now 2015, June 29 - July 02, 2015, Athens, Greece

Demo Chair

- 20th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM), Washington DC, USA

Professional Affiliations

- Member of Institute of Electrical and Electronics Engineers (IEEE), December 2008 - Present
- Member of the Technical Chamber of Greece, October 2008- Present

Reviewer of Academic Journals (Indicative List)

- IEEE Transactions on Networking
- IEEE Transactions on Mobile Computing
- IEEE Transactions on Parallel and Distributed Systems
- IEEE Communications Letter
- IEEE Transactions on Vehicular Technology
- IEEE Network Magazine
- IEEE Communications Magazine
- Physical Communications, Elsevier
- Computer Communications, Elsevier
- Computer Networks, Elsevier
- International Journal of Electronics, Taylor and Francis

Languages

- Greek (Native or bilingual proficiency)
- English (Full professional proficiency)
- German (Full working proficiency)