Dr. Eirini Eleni Tsiropoulou

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Personal Data

- Born in Athens, Greece (02/02/1986), US lawful permanent resident

- Languages: Greek, English, German

Research Interests

Game Theory; Reinforcement Learning; Distributed decision making; Optimization of dynamic systems involving stochasticity, uncertainty, and risks; Resource orchestration in resource-constrained environments; Software defined systems; Artificial intelligent cyber-physical systems; Control of interdependent wireless systems.

Academic History

- **Assistant Professor** Department of Electrical and Computer Engineering, University of New Mexico, Albuquerque, USA
  July 2017 - present

- **Postdoctoral Associate** Institute for Systems Research, Department of Electrical and Computer Engineering, University of Maryland, USA (PostDoctoral Advisor: Dr. John Baras)
  June 2016 - June 2017

- **Postdoctoral Associate** Erik Jonsson School of Engineering and Computer Science, University of Texas at Dallas, USA (PostDoctoral Advisor: Dr. Mark Spong)
  January 2016 - June 2016

- **Postdoctoral Research Fellow**, NETwork Management and Optimal DEsign Laboratory, School of Electrical and Computer Engineering, National Technical University of Athens, Greece
  August 2014 - December 2015

- **Research Assistant**, NETwork Management and Optimal DEsign Laboratory, School of Electrical and Computer Engineering, National Technical University of Athens, Greece
  Oct 2008 - April 2014

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"

- **MBA, Project Management, Business Administration (summa cum laude, 9.07/10, top 1% 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"

- **Diploma in Electrical and Computer Engineering (summa cum laude, 9.06/10, top 1% 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"

Awards & Honors

Awards & Honors after joining UNM

1. **Early Career Award** from the IEEE Communications Society Internet Technical Committee for outstanding contribution in the area of Internet research and technology development," **2020**.

2. **Best Paper Award** in the IEEE/ACM Conference on Blockchain Research & Applications for Innovative Networks and Services (BRAINS) 2020 for the paper: Y. Cai, G. Fragkos, E.E. Tsiropoulou, and A. Veneris, "A Truth-Inducing Sybil Resistant Decentralized Blockchain Oracle," IEEE BRAINS 2020, pp. 128-135, **2020**.

3. **Best Paper Award** in the IEEE INFOCOM 2019 awarded by the IEEE Communications Systems Integration and Modeling Technical Committee for the paper: P. Vamvakas, E.E. Tsiropoulou, and S. Papavassiliou, "Dynamic Spectrum Management in 5G Wireless Networks: A Real-Life Modeling Approach," IEEE INFOCOM 2019, pp. 2134-2142, 2019. **2020**.

4. **Best Paper Award** in the 12th IEEE/IFIP Wireless and Mobile Networking Conference 2019 for the paper: P. Promponas, P.A. Apostolopoulos, E.E. Tsiropoulou, and S. Papavassiliou, "Redesigning Resource Management in Wireless Networks based on Games in Satisfaction Form," **2019**.

5. **Outstanding Reviewer Award** for Sensors Journal, 2019.

6. **NSF CRII Award: NeTS:** Real-life modeling for EFficient RESource management in Heterogeneous multi-user systems - REFRESH, July 2019 **(PI)** .

7. **Program Committee Chair** for **ACM 14th Workshop on Challenged Networks (CHANTS) 2019 - Workshop of ACM MobiCom 2019.**

8. **Best Paper Award** in the 12th IFIP Wireless and Mobile Networking Conference (WMNC), IEEE, for the paper: P. Promponas, P. A. Apostolopoulos, **E. E. Tsiropoulou**, and S. Papavassiliou, "Redesigning Resource Management in Wireless Networks based on Games in Satisfaction Form," in 12th IFIP Wireless and Mobile Networking Conference (WMNC), **Sept. 2019**.

   Pavlos Athanasios Apostolopoulos, one of the co-authors of this paper, is a second-year Ph.D. student under my supervision at the Department of Electrical and Computer Engineering, UNM.

9. **Keynote** for the **1st International Workshop on Data Distribution in Industrial and Pervasive Internet 2019** - Workshop of IEEE WoWMoM 2019.

10. **2018-2019 Junior Faculty Teaching Excellence Award, School of Engineering**, University of New Mexico.

11. **Exemplary Editor Award for IEEE Communications Letters** received by IEEE Communications Society, 2018.

12. **NSF Travel Grant** to attend 2018 NSF Smart and Connected Communities (S&CC) Aspiring PI Workshop, Kansas City, MO.

13. **N^2 Women Chair organizing the N^2 Women workshop at the 20th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks** (WoWMoM) 2019, Washington DC, USA.

Awards & Honors before joining UNM

1. **N^2 Women: Rising Stars in Networking and Communications Award, 2017.**

2. **Susan Frazier Postdoctoral Researcher Travel Award** by Institute for Systems Research, Department of Electrical & Computer Engineering, University of Maryland, College Park, **May 2017**.

3. **Best Paper Award** in the 7th International Conference on Ad Hoc Networks (LNCS) Sprigner (**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**.

4. **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**.

5. **Student Conference Travel Grant**, (IWCMC 2009), Organization: National Technical University of Athens, **June 2009**.

6. **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**.

7. **Awards of Excellence in High School**, 12 in total, from the Ministry of Education, **1998-2003**.

Project Funding

Project Funding at UNM

1. **National Science Foundation, QLCI-CI: NSF Quantum Leap Challenge Institute for Enhanced Sensing and Distribution Using Correlated Quantum States**, Sub-award: January 2021 - January 2022, **PI: Eirini Eleni Tsiropoulou**, co-PI: Jim Plusquellic, $87,000$, Personal share: $63,000$.

2. **National Science Foundation, Computer and Information Science and Engineering (CISE), Research Initiation Initiative (CRII): NeTS:** Real-life modeling for EFficient RESource management in Heterogeneous multi-user systems - REFRESH, July 2019 - June 2021, **PI: Eirini Eleni Tsiropoulou**, $174,987$.

3. **National Science Foundation - VPRED EPSCOR:** NM EPSCoR Infrastructure Seed Award, May 2020- August 2023, **PI: Eirini Eleni Tsiropoulou**, $50,000$.

4. **Sandia National Laboratories:** Cybersecurity for Smart Grid Networks, August 2020- September 2021, **PI: Eirini Eleni Tsiropoulou**, $84,597$.

5. **Sandia National Laboratories:** Development of the heliostat focusing and canting enhancement technique, March 2019- May 2021, **PI: Eirini Eleni Tsiropoulou**, $142,532$.

6. **Sandia National Laboratories:** Autonomous Sensor Tasking and Scheduling Across Multiple Platforms, January 2020- November 2020, **co-PI: Eirini Eleni Tsiropoulou** (PI: Meeko Oishi), Total Amount: $40,000$, Personal share: $20,000$.

7. Gerondelis Foundation: Graduate student expenses support, August 2020 - August 2021, **PI: Eirini Eleni Tsiropoulou**, $5,000$.

8. 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: Eirini Eleni Tsiropoulou**, $\$10,000$.

9. Title: "HEterogeneous wireLEss Network Utility Maximixation (HELENiUM)" Funding organization: RAC Grant Awards. March 2018- May 2019, **PI: Eirini Eleni Tsiropoulou**, $\$10,000$.

10. Gerondelis Foundation: Graduate student expenses support, August 19, 2019 - January 20, 2020, **PI: Eirini Eleni Tsiropoulou**, $\$5,000$.

11. **NSF Travel Grant** to attend 2018 NSF Smart and Connected Communities (S&CC) Aspiring PI Workshop, Kansas City, MO, $\$1,000$.

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Research Funding as PI: $\$566,116$

Total Research Funding: $\$610,116$

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Project Funding before joining UNM

1. Title: "Personalized Documentary Creation based on Automatically Annotated Content" Funding organization: EU. 2015-2017 **(Co-Investigator)**.

2. Title: "Multimedia Content Annotations for Rapid Exploitation in Multi-Screen Environments". Funding organization: EU. 2015-2016 **(Co-Investigator)**.

3. 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)**.

4. Title: " 3DTV Content Search (3DTVS)". Funding organization: EU, Seventh Framework Programme (FP7) 2011-2015 **(Workpackage Leader)**.

5. Title: "Design and evaluation of autonomic mechanisms for supporting user Quality of Experience (QoE)" Funding organization: VELTI S.A. Duration: 11/2009-05/2011 **(Workpackage Leader)**.

6. 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 **(Workpackage Leader)**.

Teaching Experience

1. **ECE 341 Communication Systems** (Undergraduate Course - University of New Mexico - **Fall 2018 (42 students), Fall 2019 (37 students), Fall 2020(31 students)**).

   ECE 341 Communication Systems became a standard requirement for the Computer Engineering undergraduate program in the Department of Electrical and Computer Engineering, UNM after the first year that I taught this class and based on my proposal to the Undergraduate Committee.

2. **ECE 440 / CS 485 Introduction to Computer Networks** (Undergraduate Course - University of New Mexico - **Spring 2018 (49 students), Spring 2019 (16 students), Spring 2020 (40 students), Spring 2021 (64 students)**)

3. **ECE 524 Network Economics** (ECE 524 - Graduate Course - University of New Mexico - **Fall 2017 (5 students), Spring 2019 (20 students), Spring 2020 (26 students), Spring 2021 (13 students)**)

4. Stochastic Control (ENEE 762 - Graduate Course, co-instructor - University of Maryland - Fall 2016)

5. Mobile Personal Communications (Graduate course, co-instructor - National Technical University of Athens - Fall 2014, 2015)

6. Self - organizing Ad hoc Networks (Graduate course, co-instructor - National Technical University of Athens - Spring 2014, 2015)

7. Stochastic Systems and Communications (Undergraduate course, Teaching Assistant - National Technical University of Athens - Fall 2014, 2015)

8. Queuing Theory and Applications (Undergraduate course, Teaching Assistant - National Technical University of Athens - Spring 2014, 2015)

Peer-reviewed Publications

Refereed Journal Papers (42 papers)

1. Konstantinos Papadakis-Vlachopapadopoulos, Ioannis Dimolitsas, Dimitrios Dechouniotis, **Eirini Eleni Tsiropoulou**, Ioanna Roussaki, and Symeon Papavassiliou. On blockchain-based cross-service communication and resource orchestration on edge clouds. *Informatics*, 8(1), 2021

2. G. Fragkos, C. Minwalla, J. Plusquellic, and **E.E. Tsiropoulou**. "Enhancing Privacy in PUF-Cash through Multiple Trusted Third Parties and Reinforcement Learning," in ACM Journal on Emerging Technologies in Computing Systems, 2020. (to appear)

3. S. Papavassiliou, **E. E. Tsiropoulou**, P. Promponas, and P. Vamvakas. A paradigm shift toward satisfaction, realism and efficiency in wireless networks resource sharing. *IEEE Network*, pages 1–8, 2020

4. P. A. Apostolopoulos, **E. E. Tsiropoulou**, and S. Papavassiliou. Risk-aware data offloading in multi-server multi-access edge computing environment. *IEEE/ACM Transactions on Networking*, 28(3):1405–1418, 2020

5. G. Fragkos, C. Minwalla, J. Plusquellic, and **E. E. Tsiropoulou**. Artificially intelligent electronic money. *IEEE Consumer Electronics Magazine*, pages 1–1, 2020

6. M. Diamanti, G. Fragkos, **E. E. Tsiropoulou**, and S. Papavassiliou. Unified user association and contract-theoretic resource orchestration in noma heterogeneous wireless networks. *IEEE Open Journal of the Communications Society*, 1:1485–1502, 2020

7. N. Irtija, F. Sangoleye, and **E. E. Tsiropoulou**. Contract-theoretic demand response management in smart grid systems. *IEEE Access*, 8:184976–184987, 2020

8. P. A. Apostolopoulos and **E. E. Tsiropoulou** and S. Papavassiliou. Cognitive data offloading in mobile edge computing for internet of things. *IEEE Access*, 8:55736–55749, 2020

9. A. Thanou, **E. E. Tsiropoulou**, and S. Papavassiliou. A sociotechnical approach to the museum congestion management problem. *IEEE Transactions on Computational Social Systems*, 7(2):563–568, 2020

10. G. Fragkos, S. Lebien, and **E. E. Tsiropoulou**. Artificial intelligent multi-access edge computing servers management. *IEEE Access*, 8:171292–171304, 2020

11. G. Mitsis, **E. E. Tsiropoulou**, S. Papavassiliou, "Data Offloading in UAV-assisted Multi-access Edge Computing Systems: A Resource-based Pricing and User Risk-awareness Approach," in Sensors, 2020. (to appear)

12. 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*, 6(1):135–148, 2019

13. Panagiotis Vamvakas, **Eirini Eleni Tsiropoulou**, and Symeon Papavassiliou. On controlling spectrum fragility via resource pricing in 5g wireless networks. *IEEE Networking Letters*, 1(3):111–115, 2019

14. Panagiotis Vamvakas, **Tsiropoulou, Eirini Eleni**, and Symeon Papavassiliou. Exploiting prospect theory and risk-awareness to protect uav-assisted network operation. *EURASIP Journal on Wireless Communications and Networking*, 2019(1):286, 2019

15. Panagiotis Vamvakas, **Eirini Eleni Tsiropoulou**, and Symeon Papavassiliou. Risk-aware resource management in public safety networks. *Sensors*, 19(18):3853, 2019

16. Michail Fasoulakis, **Eirini Eleni Tsiropoulou**, and Symeon Papavassiliou. Satisfy instead of maximize: Improving operation efficiency in wireless communication networks. *Computer Networks*, 159:135–146, 2019

17. 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

18. 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

19. Giorgos Mitsis, Pavlos Athanasios Apostolopoulos, **Eirini Eleni Tsiropoulou**, and Symeon Papavassiliou. Intelligent dynamic data offloading in a competitive mobile edge computing market. *Future Internet*, 11(5):118, 2019

20. 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*, 3(2):317–328, 2019

21. 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

22. 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

23. 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

24. **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

25. **Eirini Eleni Tsiropoulou**, George Kousis, Athina Thanou, Ioanna Lykourentzou, and Symeon Papavassiliou. Quality of experience in cyber-physical social systems based on reinforcement learning and game theory. *Future Internet*, 10(11):108, 2018

26. **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.

27. 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

28. 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

29. 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.

30. **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

31. **E.E. Tsiropoulou**, J. Baras, S. Papavassiliou, S. Sinha, "RFID-based Smart Parking Management System," Cyber-Physical Systems, Taylor & Francis, pp. 1-20, 2017.

32. **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

33. **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, 2017

34. 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

35. **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

36. **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)*.

37. **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

38. **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

39. **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

40. **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

41. **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

42. **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

Refereed Conference Papers (52 papers)

1. N. Patrizi, E.E. Tsiropoulou, and S. Papavassiliou, "Health Data Acquisition from Wearable Devices during a Pandemic: A Techno-Economics Approach," in IEEE ICC, 2021. (to appear)

2. F. Sangoleye, N. Irtija, and E.E. Tsiropoulou, "Data Acquisition in Social Internet of Things based on Contract Theory," in IEEE ICC, 2021. (to appear)

3. M. Diamanti, E.E. Tsiropoulou, and S. Papavassiliou, "Resource Orchestration in UAV-assisted NOMA Wireless Networks: A Labor Economics Perspective," in IEEE ICC, 2021. (to appear)

4. K. Papadakis-Vlachopapadopoulos, I. Dimolitsas, D. Dechouniotis, E. E. Tsiropoulou, I. Roussaki, and S. Papavassiliou, "Blockchain-Based Slice Orchestration for Enabling Cross-Slice Communication at the Network Edge," 2020 IEEE 20th International Conference on Software Quality, Reliability and Security Companion (QRS-C), Macau, China, pp. 140-147, 2020

5. N. Patrizi, G. Fragkos, **E.E. Tsiropoulou**, and S. Papavassiliou, "Contract-Theoretic Resource Control in Wireless Powered Communication Public Safety Systems," in IEEE GLOBECOM, 2020. (to appear)

6. N. Patrizi, G. Fragkos, K. Ortiz, M. Oishi, and **E.E. Tsiropoulou**, "A UAV-enabled Dynamic Multi-Target Tracking and Sensing Framework," in IEEE GLOBECOM, 2020. (to appear)

7. K. Rael, G. Fragkos, J. Plusquellic, and **E. E. Tsiropoulou**. Uav-enabled human internet of things. In *2020 16th International Conference on Distributed Computing in Sensor Systems (DCOSS)*, pages 312–319, 2020

8. G. Fragkos, **E. E. Tsiropoulou**, and S. Papavassiliou. Artificial intelligence enabled distributed edge computing for internet of things applications. In *2020 16th International Conference on Distributed Computing in Sensor Systems (DCOSS)*, pages 450–457, 2020

9. Y. Cai, G. Fragkos, **E. E. Tsiropoulou**, and A. Veneris. A truth-inducing sybil resistant decentralized blockchain oracle. In *2020 2nd Conference on Blockchain Research Applications for Innovative Networks and Services (BRAINS)*, pages 128–135, 2020 *(Best Paper Award)*

10. M. Diamanti, G. Fragkos, **E.E. Tsiropoulou**, and S. Papavassiliou, "Resource Orchestration in Interference-Limited Small Cell Networks: A Contract-Theoretic Approach," in International Conference on NETwork Games, Control and Optimisation (Netgcoop), 2020. (to appear)

11. G. Fragkos, N. Kemp, **E. E. Tsiropoulou**, and S. Papavassiliou. Artificial intelligence empowered uavs data offloading in mobile edge computing. In *ICC 2020 - 2020 IEEE International Conference on Communications (ICC)*, pages 1–7, 2020

12. G. Fragkos, N. Patrizi, **E. E. Tsiropoulou**, and S. Papavassiliou. Socio-aware public safety framework design: A contract theory based approach. In *ICC 2020 - 2020 IEEE International Conference on Communications (ICC)*, pages 1–7, 2020

13. G. Fragkos, C. Minwalla, J. Plusquellic, and **E. E. Tsiropoulou**. Reinforcement learning toward decision-making for multiple trusted-third-parties in puf-cash. In *2020 IEEE 6th World Forum on Internet of Things (WF-IoT)*, pages 1–6, 2020

14. P. Promponas, P. A. Apostolopoulos, and **E. Eleni Tsiropoulou** and S. Papavassiliou. Redesigning resource management in wireless networks based on games in satisfaction form. In *2019 12th IFIP Wireless and Mobile Networking Conference (WMNC)*, pages 24–31, 2019 *(Best Paper Award)*

15. P. Vamvakas, **E. E. Tsiropoulou**, and S. Papavassiliou, "Dynamic Spectrum Management in 5G Wireless Networks: A Real-Life Modeling Approach." In IEEE INFOCOM 2019-IEEE Conference on Computer Communications, pp. 2134-2142. IEEE, 2019. *(acceptance rate: 19.26%) (Best Paper Award)*

16. P. A. Apostolopoulos, **E. E. Tsiropoulou**, and S. Papavassiliou. Risk-aware social cloud computing based on serverless computing model. In *2019 IEEE Global Communications Conference (GLOBECOM)*, pages 1–6, 2019

17. G. Fragkos, **E. E. Tsiropoulou**, and S. Papavassiliou. Disaster management and information transmission decision-making in public safety systems. In *2019 IEEE Global Communications Conference (GLOBECOM)*, pages 1–6, 2019

18. P. Vamvakas, **E. E. Tsiropoulou**, and S. Papavassiliou. A market-based modular service composition approach for flexibility and adaptability in future wireless networks. In *IEEE INFOCOM 2019 - IEEE Conference on Computer Communications Workshops (INFOCOM WKSHPS)*, pages 252–257, 2019

19. P. Vamvakas, **E. E. Tsiropoulou**, and S. Papavassiliou. On the prospect of uav-assisted communications paradigm in public safety networks. In *IEEE INFOCOM 2019 - IEEE Conference on Computer Communications Workshops (INFOCOM WKSHPS)*, pages 762–767, 2019

20. Panagiotis Vamvakas, **Eirini Eleni Tsiropoulou**, and Symeon Papavassiliou. Risk-aware resource control with flexible 5g access technology interfaces. In *2019 IEEE 20th International Symposium on" A World of Wireless, Mobile and Multimedia Networks"(WoWMoM)*, pages 1–9. IEEE, 2019

21. Nathan Patrizi, Pavlos Athanasios Apostolopoulos, Kelly Rael, and **Eirini Eleni Tsiropoulou**. Socio-physical human orchestration in smart cities. In *2019 IEEE International Conference on Smart Computing (SMART-COMP)*, pages 115–120. IEEE, 2019

22. Pavlos Athanasios Apostolopoulos, Marcos Torres, and **Tsiropoulou, Eirini Eleni**. Satisfaction-aware data offloading in surveillance systems. In *Proceedings of the 14th Workshop on Challenged Networks*, pages 21–26, 2019

23. A. Thanou, **E. E. Tsiropoulou**, and Symeon Papavassiliou, "A Roadmap to Congestion Management in Museums from a Socio-Technical Perspective," Cultural Informatics, pp. 1-11, 2019

24. 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

25. 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

26. 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

27. 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

28. 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), pp.1-5, June, 2018

29. 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, pp.1-6, June, 2018

30. D. Sikeridis, **E.E. Tsiropoulou**, M. Devetsikiotis, and S. Papavassiliou, "Socio-physical Energy-Efficient Operation in the Internet of Multipurpose Things," in IEEE International Conference on Communications (ICC), pp.1-7 May, 2018

31. 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, pp. 77-84, November, 2017

32. 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, pp.1-6, Sept. 2017

33. **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), pp. 101-105, July, 2017

34. 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), pp. 697-703, July, 2017

35. **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), pp. 1-6, March, 2017

36. **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), pp. 62-80, November, 2016

37. **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), pp. 77-82, October, 2016

38. **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) Sprigner, pp. 32-46, July, 2016

39. **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

40. **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) Sprigner, pp. 42-54, September, 2015 **(Best Paper Award)**

41. 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), pp. 1-8, July, 2015

42. 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) Sprigner, pp. 76-89, June, 2015

43. 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), pp. 208-212, Athens, Greece, 2014

44. **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) Sprigner, pp. 1-14, June, 2014

45. **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), pp. 104-108, Berlin, 2013

46. 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, pp. 1-9, Brooklyn, 2013

47. **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), pp. 2352-2356, April, 2012 **(Best Paper Award)**

48. **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, pp. 200-206, April, 2010

49. **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), pp. 1-7, June, 2009

50. **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

51. 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) Sprigner, vol. 5198, p.p. 307-320, September, 2008

52. 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

The total number of peer-reviewed publications listed above is 97.

Student Supervision At University of New Mexico

Ph.D. Students

1. Pavlos Athanasios Apostolopoulos (Chair, post-proposal)

   Topic: Risk-aware Data Offloading in Distributed Systems

2. Georgios Fragkos (Chair, pre-proposal)

   Topic: Artificial Intelligent Resource Management in Resource-Constrained Interdependent Systems

3. Nathan Patrizi (Chair, pre-proposal)

   Topic: Intelligent Public Safety Systems and Networks

   Awarded the Science Mathematics and Research for Transformation (SMART) Fellowship from the Department of Defense.

4. Nafis Irtija (Chair, pre-qualifier)

    Topic: Artificial Intelligent Distributed Computing Systems

5. Fisayo Sangoleye (Chair, pre-qualifier)

    Topic: Artificial Intelligent Economic-driven Demand Response Management

MS Students

1. Aura Jensen-Curtis

Alumni

MS Students

1. Sean Lebien (Chair, Spring 2020, graduated with distrinction) – First Placement: Dynamic Systems and Research, NM, USA

    Topic: Incentivization in Mobile Edge Computing using a Full Bayesian Approach

2. Georgios Fragkos (Chair, Spring 2020, graduated with distrinction) – First Placement: Ph.D. Student at ECE, UNM

    Topic: Artificial Intelligence Enabled Distributed Edge Computing for Internet of Things Applications

3. Nathan Patrizi (Chair, Spring 2020, graduated with distrinction) – First Placement: Ph.D. Student at ECE, UNM

    Topic: Socio-physical Human Orchestration in Smart Cities

4. Marcos Torres (Chair, Fall 2019, graduated with distrinction) – First Placement: Sandia National Laboratories, USA

    Topic: Satisfaction-aware Data Offloading in Surveillance Systems

    Awarded the honorable mention for the Graduate Research Fellowship Program (GRFP) from the National Science Foundation.

    IEEE/Sigma Xi Annual Outstanding Graduate Student Award.

5. Nicholas Kemp (Chair, Fall 2019, graduated with distrinction) – First Placement: Sandia National Laboratories, USA

    Topic: Artificial Intelligent UAVs Data Offloading in Mobile Edge Computing

6. Pavlos Athanasios Apostolopoulos (Chair, Fall 2019, graduated with distrinction) – First Placement: Ph.D. Student at ECE, UNM

    Topic: Demand Response Management in Smart Grid Networks: a Two-Stage Game-Theoretic Learning-Based Approach

Undergraduate Students

1. Sara Kathryn LaTouf (Honors Project - Fall 2020)

2. Isabella Maria Obermeier (CRITICAL TECHNOLOGY STUDIES PROGRAM (CTSP) Summer 2020)

3. Alexis Marie Rubin (Senior Design Project 2019-2020)

4. Daenarah Abriana Dorcas (Senior Design Project 2019-2020)

5. Kelly Rael (Senior Design Project 2018-2019)

6. Nathan Patrizi (Senior Design Project 2018-2019)

High School Students

1. Maggie Wang (Summer 2019)

2. Anish Kumar (Summer 2018, Spring 2019)

3. Spoorthi Menta (Summer 2018)

Professional Standing

Member of several professional societies, including:

1. Member of Institute of Electrical and Electronics Engineers (IEEE), December 2008 - Present

2. Member of Institute of Electrical and Electronics Engineers Communications Society (IEEE ComSoc), 2018-Present

3. Member of Institute of Electrical and Electronics Engineers Computer Society, 2018-Present

4. Member of Association for Computing Machinery (ACM), 2019-Present

5. Member of Association for Computing Machinery (ACM) SIGMOBILE, 2019-Present

6. Member of the Technical Chamber of Greece, October 2008- Present

Service to UNM

1. Research Allocation Committee, UNM, 2020-present

2. Hiring Committee, ECE, UNM, 2017-present

3. Undergraduate Committee, ECE, UNM, 2018-2019

4. Graduate Committee, ECE, UNM, 2017-present

5. Area Chair of the Computer Systems & Networks and Internet of Things areas in the Department of Electrical and Computer Engineering, UNM, 2018-present.

6. Working with Dr. Pattichis, Valarie and Yvone towards redesigning the undergraduate curriculum, 2018-2019. My proposed plan of including the ECE 341 Communication Systems was presented to and accepted by the Undergraduate Committee and the course became a standard requirement in the Computer Engineering undergraduate program.

7. Representing School of Engineering and the Department of Electrical and Computer Engineering to the Collaborative Network for Engineering and Computing Diversity (CoNECD) Conference in Washington DC, 2018

8. Representing School of Engineering and the Department of Electrical and Computer Engineering to the Big Ten+ Graduate School Exposition at Purdue University (Recruiting Event), 2018 and 2019.

9. Participating in the Open House event of UNM, 2017-2019.

10. Preparing a new graduate course in the Computer Engineering, ECE, UNM entitled Network Economics. The course had 20 students registered in Spring 2019.

11. Member of the Advisory Communication Board of the ADVANCE at UNM contributing to outreach activities of UNM, 2019-present.

12. Foreign Language Proficiency for the Greek Language, Official contact for UNM, 2017-present.

Professional Services

Executive Committee Positions

1. Associate Editor: IEEE Networking Letters (2020-present)

2. Program Co-chair 26th IEEE Symposium on Computers and Communications (ISCC 2021)

3. Technical Program Committee Chair 19th ACM Symposium on Mobility Management and Wireless Access (ACM MobiWac) 2021

4. Track Chair: Track 1: Ad Hoc, Mobile, and Sensor Networking (AMSN) in the 30th International Conference on Computer Communications and Networks - ICCCN, 2021

5. PhD Workshop Chair in IEEE International Conference on Sensing, Communication and Networking (IEEE SECON) 2021

6. Doctoral Symposium Chair: 23rd International Conference on Distributed Computing and Networking - ICDCN 2022

7. General Chair: Selected Areas in Communication, Social Networks Track, IEEE Globecom 2020

8. Best Paper Award Committee: IEEE Global Communications Conference 2019 - IEEE GLOBECOM 2019

9. Associate Editor: Evolutionary Intelligence, Springer, 2020-present

10. Associate Editor: Pervasive and Mobile Computing, Elsevier, 2020-present

11. Associate Editor: Computer Networks, Elsevier, 2019-present

12. Associate Editor: Ad Hoc Networks, Elsevier, 2019-present

13. Publicity Chair for Global Internet Symposium – IEEE INFOCOM 2021

14. Publicity Chair for IEEE WoWMoM 2021

15. General Chair: 1st International Workshop on Real-life modeling in 5G networks and beyond, IEEE DCOSS 2020

16. Program Committee member of the IEEE International Conference on Omni-layer Intelligent systems – COINS2020.

17. Program Committee member of the PhD Forum, 21st IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM), August 31 - September 3 2020, Cork, Ireland

18. Workshops Chair for 6th IEEE International Conference on Smart Computing 2020 - IEEE SMARTCOMP 2020

19. Publicity Chair: 24th IEEE/ACM International Symposium on Distributed Simulation and Real Time Applications, 2020

20. Publicity Chair: 25th IEEE Symposium on Computers and Communications (ISCC) 2020

21. Publicity Chair: IEEE International Conference on Distributed Computing in Sensor Systems (IEEE DCOSS 2020)

22. Associate Editor: Transactions on Emerging Telecommunications Technologies, Wiley, 2019-present

23. Workshop Program Chair: Mobicom Workshop on Challenged Networks (CHANTS) 2019, co-organized with ACM MobiCom 2019.

24. Editorial Board Member: Future Internet, MDPI, 2019-present

25. Co-editor for the Special Issue in Future Internet, MDPI: Selected Papers from IEEE ICICT 2019

26. Co-editor for the Special Issue in Future Internet, MDPI: Network Economics and Utility Maximization

27. Keynote Talk: IEEE Workshop on Data Distribution in Industrial and Pervasive Internet, 2019

28. N2WOMEN Panelist: IEEE INFOCOM 2019

29. Newsletter Chair: Social Networks Technical Committee, IEEE

30. Special Issue Co-Editor: "5G Enabled Internet of Things Applications and Services", Computer Networks, Elsevier

31. Demonstration Chair: 20th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM), 2019

32. N^2 WOMEN Chair: 20th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM), 2019

33. 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

34. Local Arrangements Co-Chair: Ad-Hoc Now 2015, June 29 - July 02, 2015, Athens, Greece

35. Workshop General Co-Chair: Workshop on Mobile Computing and Networking Technologies 2009 (WMCNT 2009), http://wmcnt09.ntua.gr, St. Petersburg, Russia, October 2009.

36. Workshop General Co-Chair: Workshop on Mobile Computing and Networking Technologies 2010 (WMCNT 2010), http://wmcnt.ntua.gr

37. Workshop General Chair: Workshop on Mobile Computing and Emerging Communication Networks 2010 (MCECN 2010), http://mcecn.ntua.gr, Miami, Florida, USA, December 2010.

38. Workshop General Chair: Workshop on Mobile Computing and Emerging Communication Networks 2011 (MCECN 2011), http://mcecn.ntua.gr, Houston, Texas, USA, December 2011.

39. Workshop General Co-Chair: Workshop on Mobile Computing and Networking Technologies 2011 (WMCNT 2011), http://wmcnt.ntua.gr, Budapest, Hungary, October 2011.

40. Workshop General Co-Chair: Workshop on Mobile Computing and Networking Technologies 2012 (WMCNT 2012), http://wmcnt.ntua.gr, St. Petersburg, Russia, October 2012.

Reviewer for National Funding

1. Reviewer for NSF CISE Division, 2017-present (8 panels)

2. Reviewer for NSF Engineering Division, 2017-present (1 panel)

3. Reviewer for Natural Sciences and Engineering Research Council of Canada, 2018-present (1 panel)

4. Reviewer for the National Research Fund of Luxemburg, 2017-present (3 panels)

5. Reviewer for NSF CRII proposal at University of Omaha, 2019 (1 proposal)

Technical Program Committee Membership

1. 3rd IEEE International Workshop on Data Driven Intelligence for Networks and Systems (DDINS) 2021

2. IEEE/ACM IWQoS'21 - IEEE/ACM International Symposium on Quality of Service 2021

3. 24th ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems - MSWiM 2021

4. 19th International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks - WiOpt 2021

5. 3rd Workshop on Emerging Technologies and Trends in Engineering Low-Power Networks - NewNets 2021

6. Joint European Conference on Networks and Communications & 6G Summit (EuCNC/6G Summit): Network Softwarisation (NET) 2021

7. IEEE International Mediterranean Conference on Communications and Networking 2021

8. IEEE International Conference on Sensing, Communication and Networking SECON 2021

9. 4th International Conference on Communication Theory, Reliability, and Quality of Service 2021

10. IEEE 32nd Annual International Symposium on Personal, Indoor and Mobile Radio Communications - PIMRC 2021

11. 20th International Conference on Networks 2021

12. IEEE International Conference on Computer Communications – INFOCOM, 2021

13. IEEE International Conference on Communications (ICC): Next-Generation Networking and Internet Symposium 2021

14. IEEE International Conference on Communications (ICC): Communication Software and Multimedia Symposium 2021

15. 36th ACM Symposium on Applied Computing, 2021

16. IEEE International Conference on Blockchain and Cryptocurrency – ICBC, 2021

17. 10th International Conference on Sensor Networks - SENSORNETS, 2021

18. The Web Conference, Web of Things, Ubiquitous and Mobile Computing, 2021

19. IEEE International Conference on Smart Computing – SMARTCOMP 2021

20. IEEE IoT-Health 2021 – IEEE ICC 2021

21. IEEE World Forum on Internet of Things – WF-IoT 2021

22. IEEE ICC 2021 Workshop on Communication, Computing, and Networking in Cyber-Physical Systems 2021

23. 17th International Conference on Distributed Computing in Sensor Systems – IEEE DCOSS 2021

24. International Conference on Data Analytics for Business and Industry 2020

25. 20th Annual IFIP Networking Conference 2021

26. IEEE/ACM Workshop on Serverless To sErvE moRe at Scale STEERS 2021 – IEEE/ACM CCGRID 2021

27. 14th IEEE International Workshop on Wireless Sensor, Robot and UAV Networks 2021 - IEEE INFOCOM 2021

28. 2nd International Sustainability and Resilience Conference 2020

29. Sixth International Conference on e-Learning – ECONF 2020

30. 9th IEEE International Conference on Communication, Networks and Satellite (IEEE COMNETSAT 2020)

31. IEEE International Conference on Decision Aid Sciences and Application (DASA), 2020

32. IEEE Globecom, Selected Areas in Communications: Internet of Things and Smart Connected Communities, 2020

33. IEEE 31st Annual International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), 2020

34. European Conference on Networks and Communications (EuCNC) 2020

35. IEEE International Conference on Blockchain and Cryptocurrency, 2020

36. IEEE International Conference on Network Protocols (ICNP 2020), 2020

37. 17th IEEE International Conference on Sensing, Communication and Networking - IEEE SECON 2020

38. International Conference on Innovation and Intelligence for Informatics, Computing, and Technologies, 2020

39. 2nd Workshop on Emerging Technologies and Trends in Engineering Low-Power Networks (NewNets) to be held as part of the International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM) in June 2020

40. IEEE International Conference on Communications (ICC): Communication Software, Services and Multimedia Applications Symposium 2020

41. 3rd International IoT-Health workshop is scheduled to take place as part of the IEEE ICC 2020

42. 8th International Conference of Security, Privacy and Trust Management (SPTM 2020)

43. 13th IEEE International Workshop on Wireless Sensor, Robot and UAV Networks, IEEE INFOCOM 2020

44. IEEE SMARTCOMP 2020

45. 35th ACM/SIGAPP Symposium On Applied Computing, 2020

46. IEEE International Conference on Distributed Computing in Sensor Systems (DCOSS 2020) 2020

47. IEEE World Forum on Internet of Things - IEEE WFIoT 2020

48. IEEE INFOCOM 2020-IEEE Conference on Computer Communications Workshops (INFOCOM WKSHPS) - 4th IEEE International Workshop on Wireless Communications and Networking in Extreme Environments (WCNEE'20)

49. IEEE International Symposium on Local and Metropolitan Area Networks (IEEE LANMAN 2020)

50. 4th International Balkan Conference on Communications and Networking 2020 (BalkanCom 2020)

51. 19th International Conference on Ad Hoc Networks and Wireless (AdHoc-Now 2020)

52. 16th International Conference on Wireless and Mobile Communications - ICWMC 2020

53. 17th International Conference on Information Technology- New Generations 2020

54. 1st ACM Workshop on Experimentally-driven 5G Research, Business Applications, Developments – 5G-ReBuilD 2020

55. IEEE International Conference on Network Protocols (ICNP 2019)

56. 35th ACM Symposium on Applied Computing, 2019

57. ACM SenSys 2019

58. Information Quality and Quality of Service for Pervasive Computing (IQ2S 2020), 2020

59. 1st ACM CoNEXT Workshop on Emerging in-Network Computing Paradigms (ENCP'19) (CoNEXT ENCP'19)

60. IEEE Global Communications Conference: Selected Areas in Communications: Social Networks, 2019

61. IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, PIMRC, 2019

62. 8th International Conference on Advances in Computing, Communications and Informatics (ICACCI'19), 2019

63. 5th International Conference on Smart Computing (SMARTCOMP), 2019

64. European Conference on Networks and Communications (EuCNC), 2019

65. 28th International Conference on Computer Communications and Networks, Hot Topics in Networking (HOT), 2019

66. IEEE 5th World Forum on Internet of Things, 2019

67. IEEE Global Communications Conference (GLOBECOM), SELECTED AREAS IN COMMUNICATIONS (SAC) SYMPOSIUM, Internet of Things, 2019

68. 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

69. 1st ACM CoNEXT Workshop on Emerging in-Network Computing Paradigms (ENCP'19) (CoNEXT ENCP'19)

70. Workshop on Information Quality and Quality of Service for Pervasive Computing (IQ2S 2020) in conjunction with IEEE Percom 2020

71. International Balkan Conference on Communications and Networking, 2019

72. 2nd IEEE Middle East and North Africa Communications Conference, 2019

73. 18th International Conference on Ad Hoc Networks and Wireless (AdHoc-Now 2019)

74. IEEE Middle East & North Africa COMMunications Conference 2019 (IEEE MENACOMM'19)

75. IEEE International Conference on Network Protocols, September 24-27, 2018, Cambridge, UK

76. IEEE Global Communications Conference (GLOBECOM), workshop on Communication, Computing, and Networking in Cyber Physical Systems (CCNCPS 2018), 9-13 December 2018, Abu Dhabi, UAE

77. IEEE Workshop on Cognitive Networks (CogniNets'18), October 1-4, 2018, Chicago, USA

78. IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC 2018), 9-12 September 2018 - Bologna, Italy

79. The 16th International Conference on Ad Hoc Networks and Wireless, AdHoc-Now 2017, Springer, 20-22 Sep. 2017, Messina, Italy

80. The Sixth International Conference on Advances in Vehicular Systems, Technologies and Applications, IARIA, July 23 - 27, 2017, Nice, France

81. IEEE WoWMoM 2017, International Workshop on Small Cell Networking for 5G, June 12-15, 2017, Macau, China

82. IEEE 85th Vehicular Technology Conference, VTC2017-Spring, Track: Wireless Access Technology and Heterogeneous Networks, June 4-7, 2017, Sydney, Australia

83. IEEE 84th Vehicular Technology Conference, VTC2016-Fall, Track: Radio Access Technology, LTE, 5G, and Wireless Heterogeneous Networks, September 18-21, 2016, Montreal, Canada

84. IEEE 83rd Vehicular Technology Conference , VTC2016-Spring, Track: LTE/LTE-A, 5G, and Wireless Heterogeneous Networks, May 15-18, 2016, Nanjing, China

85. IEEE 82nd Vehicular Technology Conference, VTC2015-Fall, Track: Cellular Networks, September 6-9, 2015, Boston, USA

86. Ad-Hoc Now 2014, June 22-27, 2014, Benidorm, Spain (Technical Program Committee Member)

87. Ad-Hoc Now 2013, July 08-10, 2013, Wroclaw, Poland (Technical Program Committee Member)

88. Ad-Hoc Now 2012, July 09-11, 2012, Belgrade, Serbia (Technical Program Committee Member)

89. MCECN 2010, 2011 Workshop on Mobile Computing and Emerging Communication Networks (General Co-Chair)

90. WMCNT 2009, 2010, 2011, 2012 Workshop on Mobile Computing and Networking Technologies (General Co-Chair)

Reviewer for journals including:

1. IEEE Access

2. IEEE Transactions on Information Theory

3. IEEE Transactions on Mobile Computing

4. IEEE Transactions on Networking

5. IEEE Communications Surveys and Tutorials

6. IEEE Transactions on Cybernetics

7. IEEE Wireless Communications Letters

8. IEEE Transactions on Wireless Communications

9. IEEE Wireless Communications Magazine

10. IEEE Transactions on Communications

11. IEEE Communications Letters

12. IEEE Communications Magazine

13. IEEE Internet of Things Journal

14. IEEE Robotics and Automation Letters

15. IEEE Transactions on Automation Science and Engineering

16. IEEE Transactions on Computers

17. IEEE Transactions on Control and Network Systems

18. IEEE Sensors Journal

19. IEEE Transactions on Network Science and Engineering

20. IEEE Transactions on Network and Service Management

21. IEEE Transactions on Neural Networks and Learning Systems

22. IEEE Transactions on Parallel and Distributed Systems

23. IEEE Journal on Selected Areas in Communications

24. IEEE Journal of Selected Topics in Signal Processing

25. IEEE Transactions on Systems, Man, amd Cybernetics: Systems

26. Elsevier Ad Hoc Networks

27. Elsevier Computer Communications

28. Elsevier Computer Networks

Outreach Services

1. AFRL Inspire Day, Albuquerque, Oct. 2017

2. Invited Talk to the Leaders and Innovators Seminar Series in the Electrical and Computer Engineering Department, Texas A&M University, Oct. 2017.