

# Dr. Eirini Eleni Tsiropoulou

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## Education

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

Fall 2017 - present

- **Postdoctoral Associate** Institute for Systems Research, Department of Electrical and Computer Engineering, University of Maryland

Advisor: Professor John S. Baras

June 2016 - June 2017

- **Research 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

May 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 as Co-Instructor

- Stochastic Systems and Communications (Undergraduate course - National Technical University of Athens - Fall 2014, 2015)
- Queuing Theory and Applications (Undergraduate course - National Technical University of Athens - Spring 2014, 2015)
- Mobile Personal Communications (Graduate course - National Technical University of Athens - Fall 2014, 2015)
- Self - organizing Ad hoc Networks (Graduate course - National Technical University of Athens - Spring 2014, 2015)
- Stochastic Control (ENEE 762 - Graduate Course - University of Maryland - Fall 2016)

## Research Interests

- Resource Allocation & Optimization in Heterogeneous Wireless Networks
- Distributed Optimization and Game Theory, Cell and Network Selection Techniques, Bargaining Games, Non-Cooperative Games
- Network Utility Maximization Theory
- Multi-Service Hierarchical Ultra Dense Networks, Femtocells, Visible Light Communication
- Cyber-physical Systems, Internet of Things, RFID technology, Passive Tag-to-Tag Communication
- M2M and D2D Communications
- Demand Response Management in Smart Grid Networks
- Smart Data Pricing

## Honors, Awards, & Scholarships

- **N2Women: 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

- 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. E. E. Tsiropoulou, G. Mitsis, S. Papavassiliou, "Interest-aware Energy Collection & Resource Management in Machine to Machine Communications," in Elsevier, Ad Hoc Networks, 2017. (*under review*)
2. E. E. Tsiropoulou, A. Thanou, S. Papavassiliou, "Quality of Experience based Museum Touring: A Human in the Loop Approach," in Social Network Analysis and Mining, Springer, 2017.
3. E.E. Tsiropoulou, J. Baras, S. Papavassiliou, S. Sinha, "RFID-based Smart Parking Management System," Cyber-Physical Systems, Taylor & Francis, 2017. (*to appear*)
4. P. Vamvakas, E. E. Tsiropoulou, S. Papavassiliou, "Dynamic Provider Selection & Power Resource Management in Competitive Wireless Communication Markets," in Mobile Networks and Applications, Springer, pp. 1-14, 2017. DOI: 10.1007/s11036-017-0885-y

5. 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.
6. 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*, 2016 (to appear).
7. 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.
8. 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.
9. E. Stai, S. Kafetzoglou, E.E. Tsiropoulou, S. Papavassiliou, "A Holistic Approach for Personalization, Relevance Feedback & Recommendation in Enriched Multimedia Content," *Multimedia Tools and Applications*, 2016 (to appear).
10. 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).
11. 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.
12. 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.
13. 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.
14. 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.
15. 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.
16. 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, M. Vomvas, S. Papavassiliou, "Adaptive Power Management in Wireless Powered Communication Networks: A User-Centric Approach," *IEEE 38th Sarnoff Symposium*, Sept. 2017.
2. 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.
3. 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.

4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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)**
10. 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.
11. 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.
12. 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.
13. 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.
14. 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.
15. 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.
16. 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)**
17. 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.
18. 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.

19. 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.
20. 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.
21. 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.

### **Research Mentor**

1. **Marinos Vomvas**,  
Diploma Thesis: Adaptive Power Management in Wireless Powered Communication Networks: A User-Centric Approach  
<http://artemis.cslab.ntua.gr:80/Dienst/UI/1.0/Display/artemis.ntua.ece/DT2017-0061> (in Greek)
2. **Foteini Ntavou**,  
Diploma Thesis: Resource Allocation in Multi-Tier Wireless Networks: Macrocell, Femtocell, Visible Light Communication Cells  
<http://artemis.cslab.ntua.gr:80/Dienst/UI/1.0/Display/artemis.ntua.ece/DT2016-0148> (in Greek)
3. **Antreas Xatzidakis**,  
Diploma Thesis: Distributed Resource Allocation in Device to Device Communications based on Bargaining Model  
<http://artemis.cslab.ntua.gr:80/Dienst/UI/1.0/Display/artemis.ntua.ece/DT2016-0006> (in Greek)
4. **Iakovos Gialagkolidis**,  
Diploma Thesis: Joint Resource Blocks and Power Allocation in Visible Light Communication Systems  
<http://artemis.cslab.ntua.gr:80/Dienst/UI/1.0/Display/artemis.ntua.ece/DT2016-0005> (in Greek)

5. **Athanasios Koutsaftis**,  
Diploma Thesis: Optimal Resource Allocation in M2M Wireless Networks  
<http://artemis.cslab.ntua.gr:80/Dienst/UI/1.0/Display/artemis.ntua.ece/DT2015-0345> (in Greek)
6. **Ioannis Ziras**,  
Diploma Thesis: Resource Allocation in SC-FDMA Wireless Networks based on Multilateral Model of Bargaining: A Quantified Approach  
<http://artemis.cslab.ntua.gr:80/Dienst/UI/1.0/Display/artemis.ntua.ece/DT2015-0031> (in Greek)
7. **Alexandros Filios**,  
Diploma Thesis: Optimal Cell Selection & Uplink Power Control in Open Access Multi-Service Two-Tier Femtocell Networks,  
<http://artemis.cslab.ntua.gr:80/Dienst/UI/1.0/Display/artemis.ntua.ece/DT2014-0133> (in Greek)
8. **Ioannis Zompolas**,  
Diploma Thesis: Efficient Uplink Power Control in Multi-Service Two-Tier Femtocell Networks via a Game Theoretic Approach,  
<http://artemis.cslab.ntua.gr:80/Dienst/UI/1.0/Display/artemis.ntua.ece/DT2013-0073> (in Greek)
9. **Christos Pappas**,  
Diploma Thesis: Search and Retrieval of Multimodal Audiovisual Content,  
<http://artemis.cslab.ntua.gr:80/Dienst/UI/1.0/Display/artemis.ntua.ece/DT2012-0099> (in Greek)
10. **Aggelos Kapoukakis**,  
Diploma Thesis: Energy-efficient Subcarrier Allocation in SC-FDMA Wireless Networks based on Multilateral Model of Bargaining,  
Printed Version available at NETwork Management and Optimal DEsign Laboratory - NETMODE (in Greek)
11. **Panagiotis Vamvakas**,  
Diploma Thesis: Joint Utility-based Uplink Power and Rate Allocation in Wireless Networks: A Non-cooperative Game Theoretic Framework,  
<http://artemis.cslab.ntua.gr:80/Dienst/UI/1.0/Display/artemis.ntua.ece/DT2011-0129> (in Greek)
12. **Georgios Katsinis**,  
Diploma Thesis: Utility-based Power Control via Convex Pricing for the Uplink in CDMA Wireless Networks,  
<http://artemis.cslab.ntua.gr:80/Dienst/UI/1.0/Display/artemis.ntua.ece/DT2009-0242> (in Greek)

## Professional Services

### *Executive Committee Positions*

- 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***

- WMCNT 2009, 2010, 2011, 2012 Workshop on Mobile Computing and Networking Technologies (General Co-Chair)
- MCECN 2010, 2011 Workshop on Mobile Computing and Emerging Communication Networks (General Co-Chair)
- Ad-Hoc Now 2012, July 09-11, 2012, Belgrade, Serbia (Technical Program Committee Member)
- Ad-Hoc Now 2013, July 08-10, 2013, Wroclaw, Poland (Technical Program Committee Member)
- Ad-Hoc Now 2014, June 22-27, 2014, Benidorm, Spain (Technical Program Committee Member)
- IEEE 82nd Vehicular Technology Conference, VTC2015-Fall, Track: Cellular Networks, September 6-9, 2015, Boston, USA
- IEEE 83rd Vehicular Technology Conference, VTC2016-Spring, Track: LTE/LTE-A, 5G, and Wireless Heterogeneous Networks, May 15-18, 2016, Nanjing, China
- IEEE 84th Vehicular Technology Conference, VTC2016-Fall, Track: Radio Access Technology, LTE, 5G, and Wireless Heterogeneous Networks, September 18-21, 2016, Montreal, Canada
- IEEE 85th Vehicular Technology Conference, VTC2017-Spring, Track: Wireless Access Technology and Heterogeneous Networks, June 4-7, 2017, Sydney, Australia
- IEEE WoWMoM 2017, International Workshop on Small Cell Networking for 5G, June 12-15, 2017, Macau, China
- The Sixth International Conference on Advances in Vehicular Systems, Technologies and Applications, IARIA, July 23 - 27, 2017, Nice, France
- The 16th International Conference on Ad Hoc Networks and Wireless, AdHoc-Now 2017, Springer, 20-22 Sep. 2017, Messina, Italy

### ***Local Arrangements Co-Chair***

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

### **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)