

**MARIA PAPADOPOULI**  
DEPARTMENT OF COMPUTER SCIENCE  
UNIVERSITY OF CRETE

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### EMPLOYMENT IN ACADEMIA

**Assistant Professor (with tenure)**, *Department of Computer Science, University of Crete* (September 2004 – present)

**Research Associate**, *Institute of Computer Science, Foundation of Research and Technology-Hellas* (September 2004 –present)

**Visiting Professor**, *KTH Royal Institute of Technology*, Stockholm, Sweden (to be determined)

**Adjunct Professor**, *University of North Carolina*, Chapel Hill (July 2006-2009)

**Assistant Professor (tenure-track)**, *Department of Computer Science, University of North Carolina at Chapel Hill* (July 2002-July4, on leave from August 2004-June 2006)

**Visiting Professor**, *Department of Computer Science, University of Crete* (September 2004 until August 2005)

**Visiting Researcher**, *IBM Thomas J. Watson Research Center, Research Division, IBM, USA*, (summer intern 1995, 1999, και 2000)

### RESEARCH INTERESTS

Wireless networks, mobile computing, cognitive radios, performance analysis, measurements and modeling, ad hoc and sensor networks, mobile peer-to-peer computing, pervasive computing, location-sensing, Internet real-time and multimedia systems and protocols

### EDUCATION

*Ph.D.*, **Computer Science, Columbia University**, New York, NY, October 2002

*M.Phil.*, **Computer Science, Columbia University**, New York, NY, May 2002

*M.Sc.*, **Computer Science, New York University** New York, NY, May 1994

*B.S.*, **Computer Science, University of Crete**, Greece, June 1992

### Ph.D. Dissertation

Title: *Resource sharing in mobile wireless networks*. Advisor: Prof. Henning Schulzrinne.

### AWARDS

The **IBM Faculty Award**, 2004.

The **IBM Faculty Award**, 2003.

**Best student paper/poster award**, *Advances in Wired & Wireless Communications*, IEEE Sarnoff Symposium 2001.

**Honourable mention** for the *IEEE LANMAN 2010* paper.

**Graduated ranking first**, class of 1992, Department of Computer Science, University of Crete.

Scholarships based on academic achievement, Greek National Scholarship Foundation, 1988-1991.

**2<sup>nd</sup> highest score nationwide**, National Entrance Examinations for Department of Computer Science, University of Crete, 1988.

**3<sup>rd</sup> prize**, Panhellenic Examination in Mathematics, Greek Mathematical Society, 1987.

**Praise**, 3<sup>rd</sup> National Mathematical Olympiad, Greek Mathematical Society, 1987.

**1<sup>st</sup> prize, nationwide top**, Panhellenic Examination in Mathematics, Greek Mathematical Society, 1986.

**1<sup>st</sup> prize**, Prefectural of Iraklion, Panhellenic Examination, Greek Mathematical Society, 1985.

### Professional Offers in Academia

During January-March 2002, Maria Papadopouli gave interviews in ten major US academic institutions, receiving several offers to join as a tenure-track assistant professor, such as, an offer from the University of North Carolina at Chapel Hill and from the University of Wisconsin at Madison. She joined University of North Carolina at Chapel Hill which is 13<sup>th</sup> in systems and 17<sup>th</sup> overall (according to the US News ranking) and has an internationally leading group in network measurements.

In June 2010, she was nominated for a guest professorship at KTH Royal Institute of Technology in Stockholm, Sweden.

## PUBLICATIONS

### BOOK

**Maria Papadopouli** and Henning Schulzrinne. **Peer-to-peer Computing for Mobile Networks: Information Discovery and Dissemination**. Springer Eds., ISBN: 978-0-387-24427-3, 2009

### ARTICLES IN PEER REVIEW CONFERENCE PROCEEDINGS

1. Ilias Tsompanidis, Georgios Fortetsanakis, Toni Hirvonen, and **Maria Papadopouli**. **A comparative analysis of the perceived quality of VoIP under various wireless network conditions**. International Conference on Wired/Wireless Internet Communications (WWIC), Lulea, Sweden, June 2010. (12pp, invited paper)
2. Ilias Tsompanidis, Georgios Fortetsanakis, Toni Hirvonen, and **Maria Papadopouli**. **Analyzing the impact of various wireless network conditions on the perceived quality of VoIP**. *IEEE LANMAN*, Long Branch, New Jersey, USA, May 2010. *Honourable mention*.
3. Niko Kotilainen and **Maria Papadopouli**. **You've Got Photos! The design and evaluation of a location-based media-sharing application**. *Fourth International Mobile Multimedia Communications Conference*, Oulu, Finland, July 7-9 2008.
4. Theodore Patkos, Antonis Bikakis, Maria Papadopouli, Grigoris Antoniou and Dimitris Plexousakis. **Distributed AI for Ambient Intelligence: Issues and Approaches**. *European Conference on Ambient Intelligence (Aml'07)*, Darmstadt, Germany, November 7-10, 2007.
5. Konstantinos Vandikas, Lito Kriara, Tonia Papakonstantinou, Anastasia Katranidou, Haris Baltzakis and **Maria Papadopouli**. **Empirical-based analysis of a cooperative location-sensing system**. *First International Conference on Autonomic Computing and Communication Systems (ACM Autonomics'07)*, Rome, Italy, 28-30 October 2007.
6. George Tzagkarakis, Maria Papadopouli and Panagiotis Tsakalides. **Singular Spectrum Analysis of Traffic Workload in a Large-Scale Wireless LAN**. *The 10-th ACM/IEEE International Symposium on Modeling, Analysis and Simulation of Wireless and Mobile Systems*, Chania, Crete Island, Greece, October 2007. **Acceptance percentage 25%**. (10pp)

7. Theodore Patkos, Antonis Bikakis, Grigoris Antoniou, Maria Papadopouli, Dimitris Plexousakis. **A Semantics-based Framework for Context-Aware Services: Lessons Learned and Challenges**, *4th International Conference on Ubiquitous Intelligence and Computing (UIC-07)*, Hong Kong, July 11-13, 2007. **Acceptance percentage 29%**.
8. Manolis Ploumidis, **Maria Papadopouli**, Thomas Karagiannis. **Multi-level application-based traffic characterization in a large-scale wireless network**. *IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM)*, Helsinki, Finland, June 2007. (8pp) **Acceptance percentage 31%**.
9. Merkouris Karaliopoulos, **Maria Papadopouli**, Elias Raftopoulos, Haipeng Shen. **On scalable measurement-driven modeling of traffic demand in large WLANs**. *IEEE Workshop on Local and Metropolitan Area Networks*, Princeton NJ, USA, June 10-13, 2007. (9pp)
10. Theodore Patkos, Antonis Mpikakis, Grigoris Antoniou, Maria Papadopouli, Dimitris Plexousakis. **A Semantic-based Framework for Context-Aware Pedestrian Guiding Services**. *Second International Workshop on Semantic Web Technology For Ubiquitous and Mobile Applications 2006*, Riva del Garda, Trentino, Italy August 28, 2006.
11. Felix Hernandez-Campos, Merkourios Karaliopoulos, **Maria Papadopouli**, Haipeng Shen. **Spatio-Temporal Modeling of Traffic Workload in a Campus WLAN**. *2nd Annual International Wireless Internet Conference (WICON)*, Boston, USA, August 5-8, 2006. **Acceptance percentage 27%**.
12. **Maria Papadopouli**, Michael Moudatsos, Merkourios Karaliopoulos. **Modeling the Roaming in Large-scale Wireless Networks using Real Measurements**. *First workshop on advanced EXPERIMENTAL activities ON WIRELESS networks and systems*, Niagara-Falls/Buffalo, New York, USA, June 26-29, 2006. (6pp)
13. **Maria Papadopouli**, Elias Raftopoulos, Haipeng Shen. **Evaluation of short-term traffic forecasting algorithms in wireless networks**. *2nd Conference on Next Generation Internet Design and Engineering*, Valencia, Spain, April 3-5, 2006. (8pp)
14. Priyank Porwal and Maria Papadopouli. **On-demand channel switching for multi-channel wireless MAC protocols**. *12th European Wireless Conference*, Athens, Greece, April 2-5, 2006.
15. Felix Hernandez-Campos, **Maria Papadopouli**. **Assessing The Real Impact of 802.11 WLANs: A Large-Scale Comparison of Wired and Wireless Traffic**. *14th IEEE Workshop on Local and Metropolitan Area Networks*, Chania, Crete, Greece, September 18-21, 2005. (6pp) (**Ranked first best paper** in the reviewing process)
16. **Maria Papadopouli**, Haipeng Shen, Manolis Spanakis. **Modeling client arrivals at access points in wireless campus-wide networks**. *14th IEEE Workshop on Local and Metropolitan Area Networks*, Chania, Crete, Greece, September 18-21, 2005. (6pp) (**Ranked fourth best paper** in the reviewing process)
17. Felix Hernandez-Campos and **Maria Papadopouli**. **A comparative measurement study of the workload of wireless access points in campus networks**. *16th Annual IEEE International*

*Symposium on Personal Indoor and Mobile Radio Communications*, Berlin, September 11 - 14, 2005. (7pp)

18. **Maria Papadopouli**, Haipeng Shen, Elias Raftopoulos, Manolis Ploumidis, Felix Hernandez-Campos. **Short-term traffic forecasting in a campus-wide wireless network**. *16th Annual IEEE International Symposium on Personal Indoor and Mobile Radio Communications*, Berlin, September 11 - 14, 2005. (8pp)

19. **Maria Papadopouli**, Haipeng Shen, Manolis Spanakis. **Characterizing the mobility and association patterns of wireless users in a campus**. *11th European Wireless Conference 2005*, Nicosia, Cyprus, April 10-13, 2005. (7 pp)

20. Francisco Chinchilla, Mark Lindsey, and **Maria Papadopouli**. **Analysis of wireless information locality and association patterns in a campus**. *IEEE Infocom 2004*, Hong Kong, March 7-11. **Acceptance percentage 18%**.

21. Haris Fretzagias and **Maria Papadopouli**. **Cooperative location-sensing for wireless networks**. *IEEE Pervasive Computing and Communications 2004*, Orlando, Florida, March 14-17. **Acceptance percentage 15%**.

22. **Maria Papadopouli** and Henning Schulzrinne. **Effects of power conservation, wireless coverage and cooperation on data dissemination among mobile devices**. *ACM SIGMOBILE Symposium on Mobile Ad Hoc Networking & Computing (MOBIHOC) 2001*, October 4-5, 2001, Long Beach, California. (11 pp) **Acceptance percentage 16%**.

23. P. Castro, B. Greenstein, R. Muntz, P. Kermani, C. Bisdikian and M. Papadopouli. **Locating Application Data Across Service Discovery Domain**. *ACM SIGMOBILE MOBICOM 2001*, 7th Annual Int. Conf. Mobile Computing and Networking, July 16-21, 2001, Rome, Italy. (15 pp). **Acceptance percentage 10%**.

24. **Maria Papadopouli** and Henning Schulzrinne. **A Performance Analysis of 7DS: a Peer-to-Peer Data Dissemination and Prefetching Tool for Mobile Users**. *Advances in Wired and Wireless Communications, IEEE Sarnoff Symposium Digest*, March 21, 2001, Ewing, NJ (4 pp). **Best student paper/poster award**.

25. **Maria Papadopouli** and Henning Schulzrinne. **Design and Implementation of a Peer-to-Peer Data Dissemination and Prefetching Tool for Mobile Users**. *First NY Metro Area Networking Workshop*, March 12, 2001, IBM T.J. Watson Research Center, Hawthorne, New York. (7 pp)

26. **Maria Papadopouli** and Henning Schulzrinne. **Seven Degrees of Separation in Mobile Ad Hoc Networks**. *IEEE GLOBECOM*, November 27-December 1, 2000, San Francisco.

27. **Maria Papadopouli** and Henning Schulzrinne. **Network Connection Sharing in an Ad Hoc Wireless Network among Collaborative Hosts**. *NOSSDAV*, June 24-26, 1999, Bell Labs, New Jersey.

28. **Maria Papadopouli** and Henning Schulzrinne. "Resource Sharing in an Ad Hoc Wireless Network among Cooperative Hosts", *Dagstuhl Seminar on Mobile Multimedia Communication - Systems and Network*, May 3-7, 1999, Dagstuhl Manor. House, Wadern, Germany.

29. **Maria Papadopouli** and Leana Golubchik. **A Scalable Video on Demand server for a Dynamic Heterogeneous Environment**. *4th Intl. Workshop on Multimedia Information Systems (MIS)*, September 24-26, 1998, Istanbul, Turkey. Also, in Proceedings, Lecture Notes in Computer Science, Vol.1508, Springer, 1998.

### ARTICLES IN PEER REVIEW JOURNALS

**J1.** Elias Raftopoulos and **Maria Papadopouli**. **On Scalable and Accurate Modeling of Wireless Traffic Workload**. *IEEE Transactions on Networks*. (under preparation for submission, based on Chapter 5 of B1)

**J2.** George Tzagkarakis, **Maria Papadopouli**, and Panagiotis Tsakalides. **Trend Forecasting based on Singular Spectrum Analysis of Traffic Workload in a Large-Scale Wireless LAN**. *Elsevier Performance Evaluation* (special issue journal), February 2008. (15 pp)

**J3.** Niko Kotilainen, Lito Kriara, Konstantinos Vandikas, Konstantinos Mastorakis and **Maria Papadopouli**. **Location-Based Media Sharing in a MP2P Network**. *MC<sup>2</sup>R Mobile Computing and Communications Review*, January 2008.

**J4.** Leana Golubchik, John C.S. Lui and **Maria Papadopouli**. **A Survey of Approaches to Fault Tolerant Design of VOD Servers: Techniques, Analysis, and Comparison**, Special issue of *Parallel Computing* on Parallel Data Servers and Applications, Volume 24, Number 1, January 1998.

**J5.** **Maria Papadopouli** and Leana Golubchik. **Support of VBR Video Streams Under Disk Bandwidth Limitations**. Special issue of *ACM SIGMETRICS'Performance Evaluation Review (PER)*, on the topic of I/O in parallel and distributed systems, December 1997.

### List of Posters in Refereed Poster Sessions in Conferences

**P1.** **Maria Papadopouli**, Henning Schulzrinne, Paul Castro, Parviz Kermani, Chatschik Bisdikian and Mahmoud Naghshineh. "Navigating in Smart Spaces", *ACM SIGCOMM*, August 28 - September 1, 2000, Stockholm, Sweden. Poster session.

### ARTICLES IN OTHER JOURNALS

Two articles for the Greek version of the *Economist* (with newspaper *Kathimerini*) on Location Sensing and on Wireless Measurements and Modelling, respectively. September 2007.

### Notes

1. Maria Papadopouli is the contact author of the papers in which her name appears in bold font in the corresponding entry.
2. The acceptance ratio indicates the percentage of papers accepted in that conference in that year. This information can be found at <http://www.cs.ucsb.edu/~almeroth/conf/stats/>. The acceptance ratio was not available for the other journals or conferences in the above list.

### CITATIONS

On 16/6/2010, *scholar.google.com* reported 812 references when searching with "Papadopouli", while her top five publications in terms of number of citations in *Harzing's Publish or Perish* are the following: **22** (221 citations), **20** (84 citations), **26** (74 citations), **23** (59 citations), and **27** (41 citations).

## INVITED TALKS

### On Spatio-temporal modelling of wireless traffic

1. TBA, **Oxford University**, Oxford, United Kingdom. Host: Niki Trigoni
2. May 2010, **INFORTE Educational Program**, Helsinki University of Technology, Tampere University of Technology, Oulu University, Jyväskylä University, Turku University, Helsinki University and Helsinki Business School
3. July 6<sup>th</sup>, 2009, Deutsche Telekom AG, Berlin, Germany. Host: Rahul Swaminathan
4. March 6<sup>th</sup>, 2009, *1st Workshop on Scenarios for Network Evaluation Studies (Scenes'09)*, Rome, Italy.
5. October 16, 2008, **Universitat Pompeu Fabra**, Barcelona, Spain. Host: Dolors Sala
6. April 29, 2008, **Columbia University**, NY, USA. Host: Henning Schulzrinne
7. April 11, 2008, **Telefonica Research**, Barcelona Spain. Host: Pablo Rodriguez
8. April 18, 2008, **AUEB**, Greece. Host: George Polyzos
9. May 1, 2008, **AT&T Research**, NJ, USA. Host: K. K. Ramakrishnan
10. "*Peer-to-peer Applications for Ad Hoc Networked Systems*", April 2005, Schloss Dagstuhl. Host: Mario Gerla, Ant Rowstron, Christoph Lindemann
11. "*Collaborative location sensing*", January 2005, **University of Munich**, Context Reasoning EU Commission project. Host: Francois Bry

### On Measuring the Analysis of Wireless Information Locality and Association Patterns in a Campus

12. September 2004, **University of Maryland**. Host: Tony Ephremides
13. February 2004, Austin CAS Conference 2004, **IBM**, Austin, TX
14. June 2004, Network Modeling for the Internet, **Statistical and Applied Mathematical Sciences Institute**. Host: Steve Marron
15. February 2005, Austin CAS Conference 2005, **IBM**, Austin, TX
16. April 2004, **T.J. Watson Research Center, IBM**. Host: Jakka Sairamesh
17. February 26th, 2004, IBM University Day, **IBM**, RTP. Host: Thomas Bodenheimer

### On Mobile Peer-to-Peer Computing

18. March, 2003, **Polytechnic University, New York, NY. Symbol Lecturer**. Host: Prof. Andrej Stefanov
19. February, 2003, **North Carolina State University**, Raleigh, NC. Host: Prof. George Rouskas
20. November 18, 2002, **Duke University**, Durham, NC. Host: Prof. Jun Yang.
21. November 13, 2001, **Rutgers University**, New Brunswick, NJ. Host: Prof. Rich Martin
22. July 2002, **ICS-FORTH**. Host: Prof. Orphanoudakis
23. "*Research, careers, and computer Science: a Maryland symposium*", November 16-17, 2001, Computer Science Department, University of Maryland at College Park, Maryland
24. "Performance of data dissemination among mobile devices", October 9, 2001, **Hewlett-Packard Laboratories**, Palo Alto, CA. Host: Dr. Sung Ju Lee
25. "*Resource sharing and navigating smart spaces*" (overview of the 7DS), August 3, 2000, **T.J. Watson, IBM, Research Lab**
26. "*Network connection sharing in an ad hoc wireless network among collaborative hosts*", July 19, 1999, **Ericsson Switch Lab**, Stockholm, Sweden. Host: Per Johansson

## RESEARCH FUNDING

1. UNC Startup Research Funding, 2002-2005 (\$ 250,000)
2. Microsoft, 2002-2003 (\$10,000)
3. IBM, Faculty Award Program, 2003/2004 (\$ 40,000)
4. IBM, Faculty Award Program, 2004/2005 (\$ 40,000)
5. UNC Junior Faculty Development Award Recipients, 2006
6. European Commission, Marie Curie International Reintegration Grant, 2005-2007 (€80, 000)
7. Hellenic Republic Ministry of Development, General Secretariat for Research and Technology, Program "Cooperation with S & T Institutions in non-European Countries - 2005", FORTH - UNC (€60,000)
8. Advanced services in wireless wide area networks for visitors and tourist-related companies and agencies of Crete-Wireless Information Service (CRETE-WISE), Co-PI (€573,507)
9. ENISA, Position Paper on Mobile Identity Management (€4,999)
10. Google, Google AndroidEDU programme, Equipment Award (Androids smart-phones)
11. ELKE, University of Crete, Small-scale program. Travel grant (€1,300)

## ACADEMIC EXPERIENCE

### Development of new courses

1. Experimenting with mobile computing and peer-to-peer systems, Department of Computer Science, UNC, Spring 2003. **Received a grant from Microsoft to design and develop this new course.**
2. Mobile computing and wireless networks, Department of Computer Science, University of Crete. Undergraduate- and graduate-level courses.
3. Mobile computing and wireless networks, Institute of Computer Science, FORTH. **Summer school** at FORTH-ICS with students from York University, Toronto, Canada. 3-week period. Undergraduate-level course.

### Courses taught at the University of Crete

**Computer Networks**, *Undergraduate-level* course. Fall 2008, Fall 2009.

1. **Discreet Maths**, *Undergraduate-level* course. Fall 2006, 2007.
2. **Mobile computing & wireless Networks**. *Undergraduate-level* course, since Fall 2004- (once every year).
3. **Wireless Networks**. *Graduate-level* course, since Spring 2004- (once every year).

### Short-term courses taught at other institutions world-wide

1. Mobile computing & wireless networks. **Summer school** at FORTH-ICS with students from **York University, Toronto, Canada**. 3-week period. Undergraduate-level course.
2. Invited to give a research-oriented course on mobile computing and wireless networks in the **INFORTE Educational Program, organized by the top universities of Finland** (Helsinki University of Technology, Tampere University of Technology, Oulu University, Jyväskylä University, Turku University, Helsinki University and Helsinki Business School). Host Tapani Ristaniemi, Jyväskylä University.

### Courses taught at the University of North Carolina at Chapel Hill

1. Experimenting with mobile computing and peer-to-peer systems, Department of Computer Science, University of North Carolina at Chapel Hill. *Graduate-level* course. Spring 2003.

2. Mobile computing, Department of Computer Science, University of North Carolina at Chapel Hill. *Graduate-level course*. Fall 2003, and Spring 2004.

## SUPERVISING RESEARCH ACTIVITIES

1. Form and lead the “Mobile Computing Research Group” at the University of North Carolina at Chapel Hill, September 2002-July 2005
2. Form and lead the “Mobile Computing Research Activity” of the Network and Telecommunications Lab at FORTH-ICS, September 2004-

### Supervision of Ph.D. thesis at the University of Crete (in progress)

1. Elias Raftopoulos (Ph.D. October 2007-May 2009)  
Internship at **Microsoft Research**, Cambridge UK (September-December, 2008). Now at ETH-Zurich.
2. Despoina Triantafyllidou, “Exploit link-state routing to improve TCP in mobile ad hoc networks”, Ph.D. in Computer Science between LRI, University of Paris-Sud XI, Orsay and University of Crete (co-advising by K. Al Agha and V. Siri).

### Member of Ph.D. Thesis Committee at University of Crete

1. Vangelis Angelakis, Ph.D., “Power control-based design considerations for ad hoc and mesh networking”, University of Crete, April 2008
2. Stephanos Papadakis, Ph.D., University of Crete, October 2009, “Wireless Network Device Position Location System”
3. Emmanouel Spanakis, Ph.D., University of Crete, October 2009, “Cross Layer Rate Adaptation in Wireless Ad Hoc Networks”
4. Kallirroe Flouri, Ph.D., *Distributed algorithms for Support Vector Machine training in Wireless Sensor Networks*, University of Crete, October 2009
5. George Tzagkarakis, Ph.D., “Bayesian compressed sensing using alpha-stable distributions”, University of Crete, October 2009
6. Michael Polychronakis, Ph.D., University of Crete, October 2009, “Generic Detection of Code Injection Attacks using Network-level Emulation”
7. Spyros Antonatos, Ph.D., University of Crete, October 2009, “Defending against Known and Unknown Attacks using a Network of Affined Honeypots”

### External Member of Ph.D. Thesis Committee

1. Rebecca Braynard, Ph.D., **Duke University**, “Wireless MAC Layer Flexibility for Extending Effective System Lifetime”
2. Fisayo Omojukan, Ph.D., **University of North Carolina at Chapel Hill**.
3. Athanasios Karapantelakis, M.Phil., **Royal Institute of Technology**, KTH, 2007 (on-going)
4. Niko Kotilainen, Ph.D., **University of Jyväskylä**, Finland 2007 (on-going)
5. Jon-Olov Vatn, Ph.D., **Royal Institute of Technology**, KTH, 2005, “IP telephony: mobility and security, 2005
6. René Serral, Ph.D., **Universitat Politècnica de Catalunya**, “Towards End-to-End SLA Assessment”, January 2009.

### Supervision of M.Sc. thesis at the University of Crete (in progress)

1. Elias Tsompanidis (M.Sc., February 2008- )
2. Antonis Makrogiannakis (M.Sc., October 2008-)
3. Artemis Papakonstantinou (M.Sc., October 2008-)

4. George Fortetsanakis (M.Sc., October 2008-)
5. Sofia Nikitaki (M.Sc., September 2009, Greek-French graduate studies program)
6. Sofia Loutou (M.Sc., October 2009-, Greek-French graduate studies program)

#### **Graduated M.Sc. Students while at the University of North Carolina**

1. Mark Lindsey, M.Sc. Thesis. "Analyzing and exploiting the spatial locality of information", University of North Carolina at Chapel Hill, May 15th, 2003. Now with **Engineers' Consulting Group**, Valdosta, Georgia.
2. Priyank Porwal, M.Sc., 2005. University of North Carolina at Chapel Hill. Now with **Microsoft**.
3. Francisco Chinchilla, M.Sc., 2006. University of North Carolina at Chapel Hill. Now with **Intel**.

#### **Graduated M.Sc. Students while at the University of Crete**

1. Lito Kriara, M.Sc. Thesis. "Experimenting with the fingerprinting method, using signal-based measurements for providing positioning information to location-based applications", University of Crete, June 23<sup>rd</sup>, 2009.
2. Elias Raftopoulos, B.Sc. Thesis. "Analyzing forecasting algorithms of the traffic load in wireless campus-wide infrastructures", University of Crete, February 15<sup>th</sup>, 2005. M.Sc. Thesis. "Measurement-driven modeling of traffic demand and short term forecasting in large WLANs", September 2007. Now at ETH-Zurich.

#### **Ericsson Award of Excellence in Telecommunications** for his B.Sc. Thesis.

1. Antonia Papakonstantinou, M.Sc., Fall 2005. (Now with **Nokia Siemens Networks**)
2. Anastasia Katranidou, M.Sc. Thesis. "Location-sensing using the IEEE802.11 Infrastructure and the Peer-to-Peer paradigm for Mobile Computing Applications", February 2006.
3. Konstantinos Mastorakis, M.Sc. Thesis. "Extending CLS: a multimodal collaborative location-sensing system using the IEEE802.11 and Bluetooth", October 2007.
4. Manolis Ploumidis, M.Sc. Thesis. "Modeling, forecasting, and application-based characterization of traffic in campus-wide wireless networks", February 2008, University of Crete.

#### **Member of M.Sc. Thesis Committee at University of Crete**

1. John Yannakopoulos, M.Sc., University of Crete, 2004.
2. Meropi Papadaki, M.Sc., University of Crete, 2005. Now with **FORTH-ICS**.
3. Christoforos Adamakis, M.Sc., University of Crete, "Secure Mobile Payment System over GSM Network", 2005.
4. Despoina Triantafyllidou, M.Sc., University of Crete, "Congestion control in IEEE 802.11 wireless networks, using Explicit Congestion Notification and Load-based Marking", 2005. Continuing for Ph.D.
5. Giorgios Stamatakis, M.Sc., University of Crete, "A Dynamic Class-based WFQ Scheme for Service Differentiation in Wireless LANs", 2005.
6. Nikolaos Xanthopoulos, M.Sc., University of Crete, "Web Service Provisioning Over Peer-to-Peer Networks", 2005.
7. Yiorgos Fotiadis, M.Sc., University of Crete, "Improving TCP Throughput in 802.11 Lans with High Delay Variability", 2005.
8. Despoina Evaggelatou, M.Sc., University of Crete, "Access Point Selection for Improving Throughput Fairness in WLANs", 2006, Now with **HP** in Athens, Greece
9. Manos Athanatos, M.Sc., University of Crete, "Prototype Deployment of the Network of Affined Honeypots Architecture", October 2007.
10. Michael Foukarakis, M.Sc., University of Crete, "Anontool: Per Application Field Anonymization to Promote Network Data Sharing", October 2008.

11. Emmanouel Zidianakis, M.Sc., University of Crete, “An integrated platform for location-aware information systems mobile multimedia navigator”, November 2008.

### **Post Doctoral Researchers**

1. Dr. Felix Hernandez-Campos, University of North Carolina at Chapel Hill.
2. Dr. Merkourios Karaliopoulos, University of North Carolina at Chapel Hill.

## **PROFESSIONAL ACTIVITIES**

### **Editor**

1. *Traffic Monitoring and Analysis, LNCS 5537, Springer, 1<sup>st</sup> Cost Action Data Traffic and Analysis (TMA) workshop proceedings*
2. *Special Issue of the International Journal of Network Management, Wiley on Traffic Monitoring and Network Measurements: from Theory to Practice*

### **Program Chair**

1. *17<sup>th</sup> IEEE Workshop on Local and Metropolitan Area Networks'10 (general co-chair)*
2. *1<sup>st</sup> Cost Action Data Traffic and Analysis (TMA) workshop, (TMA'09)*
3. *16<sup>th</sup> IEEE Workshop on Local and Metropolitan Area Networks (LANMAN'08)*
4. *3<sup>rd</sup> International Workshop on Wireless Network Measurement (WinMee/WiTMeMo'07) in conjunction with WiOPT*
5. *2nd International Workshop on Wireless Traffic Measurements and Modeling (WiTMeMo'06) in conjunction with WiCON*
6. *1st International Workshop on Wireless Traffic Measurements and Modeling (WiTMeMo'05) in conjunction with MobiSys'05*
7. *1<sup>st</sup>, 2<sup>nd</sup> & 3<sup>rd</sup> International Workshop on Mobile Peer-to-Peer Computing (MP2P) in conjunction with IEEE Pervasive Computing and Communications Conference (PerCom)*

### **Steering Committee**

1. *IEEE Workshop on Local and Metropolitan Area Networks*
2. *International Workshop on Mobile Peer-to-Peer Computing*

### **Program Committee (selected conferences)**

1. *IEEE International Conference on Network Protocols (ICNP)'08 & '10*
2. *IEEE Communications Society Conference on Sensor, Mesh, and Ad Hoc Communications and Networks (SECON'05, '09 & '10)*
3. *1<sup>st</sup> Workshop on Scenarios for Network Evaluation Studies (Scenes'09)*
4. *IEEE Global Internet Symposium'08, '09, & '10*
5. *16<sup>th</sup> IEEE International Conference on Network Protocols (ICNP'08)*
6. *IEEE Pervasive Computing and Communications Conference (PerComm)'07*
7. *IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC'06)*
8. *IEEE Workshop on Local and Metropolitan Area Networks (LANMAN) '07, '08*
9. *IEEE 4<sup>th</sup> Annual Conference on Wireless On demand Network Systems and Services (WONS'07)*
10. *5<sup>th</sup> ACM Workshop on Data Engineering for Wireless and Mobile Access (MobiDE'06)*
11. *IEEE Pervasive Computing and Communications Conference (PerComm)'05*
12. *4<sup>th</sup> ACM Workshop on Data Engineering for Wireless and Mobile Access (MobiDE'05)*
13. *2<sup>nd</sup> ACM Workshop on Data Engineering for Wireless and Mobile Access (MobiDE'03)*

14. *Sixth ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc'05)*
15. *ACM International Workshop on Wireless Mobile Applications and Services on WLAN Hotspots (WMASH)'04*
16. *Broadband Wireless Networking Symposium*
17. *IEEE First Workshop on Embedded Networked Sensors' 04*

### **Tutorial Chair**

1. *Fifth ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc'04)*
2. *IEEE International Conference on Pervasive Services (ICPS) '05*

### **Referee**

Referee for MONET, ACM SIGMOBILE MobiHoc, ACM SIGMOBILE MobiCom, IEEE Infocom, IEEE PerCom, ACM Sigmetrics/Performance, IEEE Transactions on Networks (TON), IEEE Transactions on Circuits and Systems for Video Technology, ACM Transactions on Information Systems, Journal for Communications and Networks (JCN), IEEE Journal on Selected Areas in Communications and many others.

### **EXPERT PANELS**

1. **EU FP7 Support Action EIFFEL Think Tank** on the future of the Internet towards the development of the future networked society. Participation in the 3<sup>rd</sup> and 4<sup>th</sup> meetings and in the position paper on network measurements and data collection.
2. **European Cooperation in the field of Scientific and Technical Research, Cost Action, Data Traffic and Analysis (TMA)**, Management Committee Member, (one of the two Greek representatives in this cost action, in the list of experts), Working Package co-leader
3. **ENISA Mobile Identity Management Group**, May 2008
4. **NSF sponsored mobility models workshop**, July 2007
5. **ERCIM working group on emobility**, June 2006
6. "Pervasive Computing and Communications", Vienna, Austria, July 28, 2005
7. "*Peer-to-peer Applications for Ad Hoc Networked Systems*", April 2005, Schloss Dagstuhl
8. **IBM NC Women in Technology Conference**, June 2004
9. **Research Triangle Regional Partnership, North Carolina**, Pervasive Computing, 2003

### **Scientific & Technical Advisor**

Developed the curriculum for the undergraduate level courses at the Department of Applied Information Technology & Multimedia in the Technological Educational Institute in Crete, Greece for the systems courses (1999-2000)

### **SOFTWARE DEVELOPMENT**

- Developed 7DS a novel peer-to-peer information discovery mechanism for mobile devices. 7DS has been integrated with several applications. Research groups world-wide have expressed their interest in this project.
- Collected extensive real-life traces from large-scale wireless infrastructures. A significant part of these data, models for wireless traffic demand and statistical analysis scripts are available to the [research community via the joint UNC/FORTH repository of traces and models for wireless networks](#). More than **110 registered users worldwide**.

### Seminars & Tutorials

1. "Performance of data dissemination among mobile devices", Wireless Internet Center for Advanced Technology (WICAT) meeting, Columbia University, New York, October 12, 2001.
2. "Introduction to multimedia information systems", Department of Applied Information Technology & Multimedia, Technological Educational Institute in Crete, September 1999. One day seminar.

### MEDIA

1. Interview to G. Grammatikakis for the series "*Τα μονοπάτια της Επιστήμης*" ("The paths of Science") that was presented in the **National Broadcast Channel ET-1** (3/12/08).
2. Articles on location-sensing and wireless networking measurements and modeling, greek version of the Economist, with national-wide newspaper Kathemerini, September 2007.
3. Interviews in local newspapers *Νέα Κρήτη* (8/3/08), *Χανιώτικα Νέα* (21/9/05).