**IORDANIS KOUTSOPOULOS, Ph.D**
**Lecturer**
Department of Computer Engineering and Communications
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## 1. RESEARCH INTERESTS

- Cross-layer design (physical / access / network layer) and performance analysis of wireless and mobile networks
- Energy efficiency issues in wireless ad-hoc and sensor networks
- Resource allocation and control in wireless communication networks
- Cooperative relaying and cooperative diversity in wireless networks
- Wireless security issues, with emphasis on intrusion detection, misbehavior and attack modeling in wireless networks
- Impact of smart antennas and Space Division Multiple Access (SDMA) on higher layer mechanisms
- Orthogonal Frequency Division Multiple Access (OFDMA) resource allocation issues
- Sensor networks – architectural design issues
- Peer-to-peer network performance analysis
- Reputation mechanisms for utility maximization in distributed environments
- Satellite Communications

## 2. EDUCATION

**PhD in Electrical and Computer Engineering**, **UNIVERSITY OF MARYLAND, COLLEGE PARK, December 2002.**
PhD Dissertation: "Resource allocation issues in broadband wireless networks with OFDM signaling".
Major and minor areas: Communications and Signal Processing, Control.
GPA: 3.72/4.0

**MSc in Electrical and Computer Engineering**, **UNIVERSITY OF MARYLAND, COLLEGE PARK, May 1999.**
Master's Thesis: "Handover and channel allocation mechanisms in mobile satellite networks".

**Diploma of Electrical and Computer Engineering, NATIONAL TECHNICAL UNIVERSITY OF ATHENS, Greece, July 1997.** GPA: 8.72/10
Diploma Thesis: "Study, analysis and implementation of an analytical algorithm, based on ray tracing, for the modeling of a mobile satellite communications channel".

## 3. PUBLICATIONS

### JOURNAL PAPERS

J9. I. Koutsopoulos και L. Tassiulas, "The impact of space division multiplexing on resource allocation: a unified treatment of TDMA, OFDMA and CDMA", accepted, under minor revision, *IEEE Transactions on Communications*.

J8. I. Koutsopoulos και L. Tassiulas, "Carrier assignment algorithms for wireless multi-carrier networks with channel adaptation", accepted, under minor revision, *IEEE Transactions on Communications*, υπό μικρή αναμόρφωση (minor revision)

J7. I. Koutsopoulos και L. Tassiulas, "Joint optimal access point selection and channel assignment in wireless networks", to appear, *IEEE/ACM Transactions on Networking,* June 2007.

J6 I. Koutsopoulos, Ulas C. Kozat και L. Tassiulas, "Dynamic resource allocation in deterministic-code CDMA systems with multi-rate provisioning", *IEEE Transactions on Mobile Computing*, vol.5, no.12, pp.1780-1792, December 2006

J5. Ulas C. Kozat, I. Koutsopoulos και L. Tassiulas, "Cross-layer design and power-efficiency considerations for QoS provisioning in multi-hop wireless networks", *IEEE Transactions on Wireless Communication,* vol.5, no.11, pp.3306-3315, November 2006

J4. I. Koutsopoulos και L. Tassiulas, "Cross-layer adaptive techniques for throughput enhancement in wireless OFDM-based networks", *IEEE/ACM Transactions on Networking*, vol.14, no.5, pp.1056-1066, October 2006

J3. I. Koutsopoulos και L. Tassiulas, "Adaptive channel assignment in SDMA-based wireless LANs with transceiver resource limitations", *EURASIP Journal on Signal Processing*, Special Issue on Signal processing-assisted cross-layer designs, vol.81, No.8, pp.1879-1895, August 2006

J2. I. Κουτσόπουλος, K.P. Tsoukatos και K. Aggelis, "Physical-layer techniques and maximum throughput scheduling with antenna arrays", *IEEE Communications Letters*, vol. 10, no.6, pp. 465-467, May 2006

J1. I. Koutsopoulos και L. Tassiulas, "Efficient resource utilization through carrier grouping for half-duplex communication in GSM-based MEO mobile satellite networks" *IEEE Transactions on Wireless Communications*, vol.1, no.2, pp.342-352, April 2002

### JOURNAL PAPERS (UNDER REVIEW OR UNDER PREPARATION )

SJ1 I. Koutsopoulos, S. Varma, W.C.F. Wong και L. Tassiulas, "Throughput-optimal transmission rate control policies for wireless networks", submitted.

SJ2. S. Radosavac, G. Moustakides, J.S. Baras και I. Koutsopoulos, "An analytical framework for modeling and detecting access layer misbehavior in wireless networks", submitted.

SJ3. M. Li, I. Koutsopoulos, R. Poovendran, "Optimal jamming attack strategies and network counter-measures, for wireless sensor networks, under preparation for submission.

### CONFERENCE PUBLICATIONS

C22. M. Li, I. Koutsopoulos και R. Poovendran, "Optimal jamming attacks and defense strategies in wireless sensor networks'', to appear, *IEEE INFOCOM 2007*

C21. C. Verikoukis, L. Alonso και I. Koutsopoulos, "Performance evaluation of directional antenna-assisted MAC protocols in the presence of mobility", *Proceedings of IST Mobile Summit 2006, Mykonos, Greece*

C20. S. Radosavac, J.S. Baras και I. Koutsopoulos, "A framework for MAC layer misbehavior detection in wireless networks", *Proceedings of ACM Workshop on Wireless Security (in MOBICOM 2005), Cologne, Germany*

C19. I. Koutsopoulos, S. Toumpis και L. Tassiulas, "On the relation between source and channel coding and sensor network deployment", *Proceedings of International Workshop on wireless ad-hoc networks (IWWAN) 2005, London*

C18. A. Penttinen, I. Koutsopoulos και L. Tassiulas, "Low-complexity distributed fair scheduling for wireless multi-hop networks", *First Workshop on Resource Allocation in Wireless Networks (RAWNET), (in WiOpt 2005), Riva del Garda, Italy*

C17. U.C. Kozat, I. Koutsopoulos και L. Tassiulas, "A framework for cross-layer design of Energy-Efficient Communication with QoS provisioning in Multi-hop wireless networks", *Proceedings of INFOCOM 2004, vol.2, pp.1446-1456, Hong Kong*

C16. I. Koutsopoulos και L. Tassiulas, "Adaptive channel allocation in OFDM/SDMA wireless LANs with limited transceiver resources", *Proceedings of Third IFIP-TC6 Networking Conference 2004, Athens, Greece και Lecture Notes in Computer Science, vol.3042, pp.1384-1389, 2004*

C15. I. Koutsopoulos, T. Ren και L. Tassiulas, "The impact of Space Division Multiplexing on resource allocation: A unified approach", *Proceedings of INFOCOM 2003, vol.1, pp.533-543, San Francisco*

C14. I. Koutsopoulos και L. Tassiulas, "Adaptive resource allocation in SDMA-based wireless broadband networks with OFDM signaling", *Proceedings of IEEE INFOCOM 2002, vol.3, pp.1376 -1385, New York*

C13. U.C. Kozat, I. Koutsopoulos και L. Tassiulas, "Dynamic code assignment and spreading gain adaptation for synchronous CDMA wireless networks", *Proceedings of IEEE International Symposium on Spread Spectrum Techniques and Applications (ISSSTA) 2002, vol.2, pp.593-597, Prague, Czech Republic*

C12. I. Koutsopoulos, T. Ren και L. Tassiulas, "Efficient media access protocols for wireless LANs with smart antennas", *Proceedings of IEEE Wireless Communications and Networking Conference (WCNC) 2003, vol.2, pp. 1286-1290, New Orleans*

C11. T. Ren, I. Koutsopoulos και L. Tassiulas, "QoS provisioning for real-time traffic in wireless packet networks", *Proceedings of IEEE Global Telecommunications Conference (GLOBECOM) 2002, vol.2, pp.1673-1677, Taipei, Taiwan*

C10. I. Koutsopoulos και L. Tassiulas, "Link adaptation policies for wireless broadband networks", *Proceedings of IEEE Global Telecommunications Conference (GLOBECOM) 2001, vol.1, pp.572-576, San Antonio, Texas*

C9. I. Koutsopoulos και L. Tassiulas, "Channel-state adaptive techniques for throughput enhancement in wireless broadband networks", *Proceedings of IEEE INFOCOM 2001, vol.2, pp.757-766, Anchorage, Alaska*

C8. I. Koutsopoulos και L. Tassiulas, "Carrier assignment algorithms in wireless broadband networks with channel adaptation", *Proceedings of IEEE International Communications Conference (ICC) 2001, vol.5, pp.1401-1405, Helsinki, Finland*

C7. I. Koutsopoulos και L. Tassiulas, "A synchronization-based scheme for simultaneous full- and half-duplex communication in GSM-based MEO mobile satellite networks", *Proceedings of IEEE Global Telecommunications Conference (GLOBECOM) 1999, vol.1A, pp.276-280, Rio de Janeiro, Brazi*

C6. I. Koutsopoulos και L. Tassiulas, "Joint base station and channel allocation in mobile cellular networks", *Proceedings of IEEE International Communications Conference (ICC) 2000, vol.3, pp.1558-1562, New Orleans*

C5. I. Koutsopoulos, A. Savvides, D. Connors και S.K. Dao, "Intra-team multi-hop broadcasting (ITMB): a MAC layer protocol for efficient control signaling in wireless ad-

hoc networks", *Proceedings of IEEE International Communications Conference (ICC) 2000, vol.3, pp.1723-1727, New Orleans*

C4. I. Koutsopoulos και L. Tassiulas, "Reliable handover prediction and resource allocation in MEO mobile satellite networks", *Proceedings of IEEE/IMACS Circuits, Systems, Communications Conference 1999, Athens, Greece*

C3. I. Koutsopoulos και L. Tassiulas, "A unified framework for handover prediction and resource allocation in non-geostationary mobile satellite networks", *Proceedings of IEEE Vehicular Technology Conference (VTC) 1999 Fall, vol.4, pp.2106-2110, Amsterdam, Netherlands*

C2. I. Koutsopoulos και P. Constantinou, "Joint channel estimation and satellite antenna power control in mobile satellite networks using ray tracing", *Proceedings of IEEE Vehicular Technology Conference (VTC) 2000 Spring, vol.2, pp.1586-1590, Tokyo, Japan*

C1. T. Sofos, I. Koutsopoulos και P. Constantinou, "A deterministic ray-tracing based model for land mobile satellite channel in urban environment", *Proceedings of IEEE Vehicular Technology Conference (VTC) 1998, vol.1, pp. 658-660, Vancouver, Canada*

**TECHNICAL REPORTS**

T1 I. Koutsopoulos, D. Connors and S.K. Dao, "Intra-team multi-hop broadcasting (ITMB): A MAC layer protocol for efficient control signaling in wireless ad-hoc networks", HRL Laboratories LLC, Technical Report No. 607, Malibu, CA, August 1999.

T2 I. Koutsopoulos, "Zero-offset-arc determination for resource allocation", Technical Report No.14970, Hughes Network Systems (HNS), Germantown, MD, July 1998.

**PATENTS**

P1 D. Connors and I. Koutsopoulos, "Apparatus and method for intra-team multi-hop broadcasting for efficient control signaling in wireless ad-hoc networks", filed in U.S patent office on 11/29/03.

**CITATIONS**

83, as of December 2006 (source: Google Scholar)

## 4. HONORS AND AWARDS

- Marie Curie International Re-Integration Grant (IRG): Secure Advanced Integrated Layer Design of Wireless Networks (SAINT-W): Funded by European Commission, 9/2005-9/2007, 80KEuro.
- Visiting Scholarship: Department of Electrical Engineering, University of Washington, Seattle, USA. Collaboration with Prof. R. Poovendran on wireless network security issues.
- Graduate Research Assistantship (GRA), Department of Electrical and Computer Engineering and Institute for Systems Research, University of Maryland, College Park, 8/99 – 1/03.
- Graduate Fellowship, Department of Electrical and Computer Engineering, University of Maryland, College Park, 8/97 – 6/99 (Full fellowship)
- Fulbright Fellowship, the Fulbright Foundation, 8/97 – 12/02.
- NSF Student travel awards/grants to participate as author, presenter in INFOCOM 2001, Anchorage, Alaska and in INFOCOM 2002, New York.

- IEEE Communications Society student travel award/ grant to participate as author and presenter in GLOBECOM 1999, Rio de Janeiro, Brazil.
- Best student presentation award, fall 1999 ECE Department Graduate Seminar Series.
- Distinguished academic performance monetary award, Foundation of Greek Government Scholarships (I.K.Y), 1996, 1997.

## 5. PROFESSIONAL EXPERIENCE

**Current position : 8/05 - present**

- **Lecturer, Department of Computer Engineering and Communications, University of Thessaly, Volos, Greece.**
- **Affiliated with Center for Research and Technology Hellas (CERTH)**

**Professional experience in USA**

**6/05- 8/05: Visiting scholar, University of Washington, Seattle, WA**

- Collaboration with University of Washington on intrusion detection and jamming attack modeling for wireless networks.
- Partial supervision of graduate student Mingyan Li.

**5/00- 8/00: Internship, Aperto Networks Inc., Milpitas, CA**

- Participation in design and analysis of cross-layer adaptation algorithms (PHY-layer modulation, symbol rate, FEC coding rate and power control and link layer ARQ protocol, packet size) for the Aperto Fixed Broadband Wireless link. These algorithms are part of the technology *OptimaLink*® that has been incorporated into products PacketWave of Aperto (subscriber unit, Base Station unit) for high performance fixed wireless broadband access.
- Participation in design and performance analysis of physical layer-aware ARQ protocols.
- Performance evaluation of algorithms with the OPNET simulation tool.

**5/99- 8/99: Internship, HRL Laboratories, Malibu, CA**

- Research in the internal HRL project *"Small Unit Operation – Deployable and Adaptive Ad-hoc Mobile Networks (SUO-DAMAN)"* of DARPA.
- Design and simulations of broadcast routing protocols for control information dissemination in wireless ad-hoc networks
- Performance evaluation in terms of bandwidth consumption, delay and robustness to topology changes in topology compared to existing flooding protocol.

**5/98-8/98: Internship, Hughes Network Systems (HNS), Germantown, MD**

- Research in project *"Intermediate Circular Orbit (ICO) Satellite System"* of ICO Global Communications Ltd. Design of handover algorithms for the Mobile Satellite System ICO.
- Simulation in C++ of dynamic operation of the ICO satellite system (satellites, terrestrial and airborne user terminals, wireless link, handover, channel allocation, call blocking).
- Design and simulation of channel allocation algorithms for improved blocking ratio.

**8/99-1/03: Graduate Research Assistantship, Institute for Systems Research, University of Maryland, College Park**

- Study of cross-layer-based control mechanisms for wireless networks.
- Study of Orthogonal Frequency Division Multiple Access (OFDMA) and the IEEE 802.11a standard.
- Study of impact of physical layer control (modulation level, power control, FEC code rate) on higher layer protocols.
- Design and simulation of physical layer-aware ARQ protocols.
- Impact of smart antennas (beam-forming) on channel allocation for TDMA, OFDMA and CDMA.
- Design of algorithms for joint beam-forming, power control and channel allocation in OFDMA systems.
- Design and simulation of algorithms for fast localization of users with directional antenna assisted media access protocols based on IEEE 802.11 standard.
- Resource allocation algorithms for 3G CDMA systems with joint processing gain adaptation and resource allocation
- Algorithms for real-time packet scheduling over wireless channels based on deadlines.

**8/97-6/99: Graduate Research Fellowship, Institute for Systems Research, University of Maryland, College Park**

- Study of handover and diversity mechanisms for mobile satellite networks.
- Design, analysis and simulation of a joint base station and channel allocation algorithm for terrestrial cellular networks or wireless LANs for optimal performance in terms of number of utilized channels.

**Professional experience in Greece**

**6/97-8/97: Internship, Hellenic Telecommunications organization (O.T.E), Athens**

- Practical issues in ISDN and packet switched network HELLASPAC.
- Practice in a Network Management software package.

**4/97-6/97 & 7/95-10/95: Internship, Public Power Corporation, Athens.**

- Participation in design and engineering phase of a joint project with O.T.E for development of a wireless communication network between power production, distribution and management centers.

**6/96-9/96: Internship, "Petrola Hellas" Refinery, Athens**

- Participation in development of specs for optical fiber network in the refinery.
- Participation in development of computerized system for project management and work flow.

## 6. PARTICIPATION IN EC-FUNDED AND OTHER R & D PROJECTS

### EC-FUNDED

- **Network Research Foundations (NetREFOUND) – FET STREP Project** in Action Line "FET Open" (11/2006 – 11/2009) – Proposal and project Co-ordination, (jointly with L. Tassiulas): fundamental performance limits and network information theory, autonomous operation of network entities.

- **WIP – An all-wireless Mobile Network Architecture – IST STREP Project** in action line "Wireless networks for 3G and Beyond", funded by European Commission (1/2006-1/2009). Design and implementation of resource allocation algorithms for wireless mesh networks.

- **Marie Curie International Reintegration Grant (IRG)** – **Secure Advanced INTegrated Layer Design of Wireless Networks (SAINT-W)** in action line Human Resources and Mobility (9/2005-9/2007) : Cross-layer designs, resource allocation and security in wireless networks

- **Network of Excellence in Wireless Communications (NEWCOM) – IST NoE** in action line "Wireless networks for 3G and Beyond" , funded by European Commission, 3/2004 – 3/2007.
  Coordination / participation of sub-projects
  - Cross-layer optimization (coordinator)
  - Ad-hoc and sensor networks (participant)

- **CRUISE (Creating Ubiquitous Intelligent Sensing Environments) – IST NoE on sensor networks** in action line "Wireless networks for 3G and Beyond", funded by European Commission (1/2006-1/2008) : Architectural design and security issues in Wireless Sensor Networks

**GSRT-FUNDED**

- **"Program for the Increase of Research Potential (PENED)"**: Funded by General Secretariat of Research and Technology (GSRT), Ministry of Development, Greece.

- **Scientific and Technological Cooperation Greece - Turkey:** Desıgn Of Algorıthms For Ensurıng Tımely and Secure Data Delıvery In Wıreless Networks - 2006-2008 (Project Coordinator)

## 7. TEACHING EXPERIENCE & RELATED ACTIVITIES

**Student supervision:**

Graduate (PhD)

- Lazaros Gatzikis : Design and implementation of algorithms for optimal QoS and detection performance in wireless sensor networks (09/06- )
- Sofie Pollin, "Cross-layer resource allocation for quality of service and energy optimization in wireless networks, Katholic University of Leuven, Belgium, 09/06 (served as member of PhD Exam Committee)

I have also collaborated or continue to collaborate with the following PhD students during their studies in USA:

- Svetlana Radosavac, University of Maryland, College Park (supervisor: Prof. J. S. Baras): Misbehavior detection issues in wireless networks.
- Mingyan Li, University of Washington, Seattle, now with Boeing Phantom Works (supervisor: Prof. R. Poovendran) : Jamming attacks in wireless sensor networks.

I also collaborate with the following PhD students at University of Thessaly in various capacities:

- George Athanasiou: Resource allocation and security issues in wireless mesh networks (supervisor: Prof. L. Tassiulas)
- Christos Papathanasiou: Beam-forming and advanced resource allocation algorithms for OFDMA/SDMA networks. (supervisor: Prof. L. Tassiulas)
- Anna Satsiou: Reputation issues in community networks (supervisor: Prof. L. Tassiulas)

Graduate (MSc)

- George Iosifidis : Peer-to-peer network optimization algorithms for utility maximization (ongoing)
- Konstantinos Aggelis : Scheduling and beam-forming methods for maximum throughput in wireless networks (June 2005)
- Vasilis Miliotis : Distributed resource allocation algorithms in wireless mesh networks (ongoing)

Undergraduate:

- Lazaros Gatzikis: Peer-to-peer network algorithms for file retrieval delay minimization (2006)
- George Tihogiorgos: Peer-to-peer network algorithms for file retrieval delay minimization (2006)
- Apostolia Papapostolou: Relay-assisted cooperative communications and networking (2006)
- Ioanna Papafili : Resource allocation and spatial processing techniques for wireless systems with multiple receiver antennas (2006)
- Christos Zaharakopoulos: QoS provisioning techniques in peer-to-peer networks (2005)
- Dimitris Batzogiannis: Joint 3-layer designs for wireless networks (2005)

**Teaching:**

**8/05-present: Lecturer, Department of Computer Engineering and Communications, Volos, Greece**

- EE 568 "Advanced topics in Networking and Optimization", (5$^{th}$ year undergraduate), Fall 2005, Fall 2006.
- EE 448 "Information and Coding Theory", (5$^{th}$ year undergraduate), Fall 2006.
- EE 440 "Wireless Communications", (3$^{rd}$ year undergraduate), Spring 2006.
- EE 564 "Computer Networks II" (4$^{th}$ year undergraduate) – Spring 2006, (co-teaching)

**9/04-8/05 and 2/03-6/03: Visiting Lecturer 407/80), Department of Computer Engineering and Communications, Volos, Greece**

- EE 440 "Wireless Communications" (3$^{rd}$ year undergraduate): Spring 2005, Spring 2003.
- EE "Advanced topics in Networking" (graduate), Fall 2004, Fall 2006.
- EE 568 "Advanced topics in Networking", (5$^{th}$ year undergraduate), Fall 2004.
- EE 310 "Mathematics for Telecommunications" (3$^{rd}$ year undergraduate), Spring 2003 (co-teaching)

**Lecture Notes:**

N3. I. Koutsopoulos, Lecture Notes for the class "Information and Coding Theory", (9$^{th}$ semester), Department of Computer and Communications Engineering, University of Thessaly.

N2. I. Koutsopoulos, Lecture Notes for the class "Advanced topics on Networking", (9th semester), Department of Computer and Communications Engineering, University of Thessaly.

N1. I. Koutsopoulos, Lecture Notes for the class "Wireless Communications" (6th semester), Department of Computer Engineering and Communications, University of Thessaly.

**Related activities:**

Responsible for translation (in greek) of book "Network Security Essentials", by W. Stallings. (9/05 – 6/06)

**Administrative tasks:**

- 2005-2006 : Committee member for evaluation of enrollment applications
- 2005-2006 : Member of advisory committee of first year students

**Other related activities:**

9/96 - 6/97: Teaching assistant of GRE, Hellenic American Union, Athens, Greece

1998-1999: Grader for undergraduate courses in communications, probability and electromagnetism, University of Maryland, College Park.

Spring 98 – Fall 99: Student tutor for undergraduate studies in Engineering Probability, University of Maryland, College Park.

## 8. SELECTED RESEARCH TALKS

- "Security and spectrum allocation issues in Cognitive Radio networks", NEWCOM Workshop on Flexible radio, IMEC, Belgium, February 2007.
- Lectures: "From fundamental to modern aspects of wireless communications" and "Advanced topics in ad-hoc and sensor networking", Summer School "Advances in Beyond 3G Wireless Communications and Networks", Santorini, September 2006.
- "Issues in wireless network security and misbehavior", Institute Mechanique and Electrotechnique (IMEC), Leuven, Belgium, September 2006.
- "Advances in Cross-layer designs of wireless networks", NEWCOM Workshop, in conjunction with ICC 2006, Istanbul, Turkey, June 2006.
- "Security of Wireless Networks and protection from malicious attacks", 2nd Balkan Security Forum, Thessaloniki, June 2006.
- "Access layer misbehavior detection issues in wireless networks", University Polytechnic Catalunya (UPC), Barcelona, Spain, April 2006.
- "Challenges in access layer misbehavior detection in wireless networks", Technical University of Denmark, Copenhagen, March 2006.
- "A framework for MAC layer misbehavior detection in wireless networks", University of Washington, Seattle, June 2005.
- "Security and Legitimate Protocol operation in wireless networks", Workshop on Security of Broadband Wireless Networks, European Parliament, Brussels, Belgium, May 2005.
- "Cross-layer based resource allocation and CSI management in wireless networks", Forschungszentrum Telekommunikation Wien (FTW), Vienna, Austria, April 2005.
- "Cross-layer design considerations for energy-efficient multimedia transmission in wireless multi-hop networks", NEWCOM Workshop "Wireless Week in Bologna", Bologna, Italy, January 2005.

- "Cross-layer design issues in wireless networks", Centre Technologic de Telecommunications de Catalunya (CTTC), Barcelona, Spain, September 2004.
- "Resource allocation issues in broadband wireless networks with OFDM signaling", University of Maryland Baltimore County (UMBC), December 2002.
- "Wireless broadband networks: Where is the key to heaven?", Graduate Seminar Series, Department of Electrical and Computer Engineering, University of Maryland College Park, December 1999.

## 9. PROFESSIONAL AFFILIATIONS AND SERVICE

- TPC Member: International Symposium on Modeling and Optimization in Mobile, Ad-hoc and Wireless networks (WiOpt) 2006, 2007
- TPC Member: Workshop on Secure Network Protocols (NPSec), 2005, 2006.
- TPC Member: International Symposium on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM), 2005, 2006.
- Journal Reviewer: IEEE Transactions on Information Theory, IEEE/ACM Transactions on Networking, IEEE Transactions on Mobile Computing, IEEE Transactions on Wireless Communications, IEEE Communications Letter, IEEE Transactions on Communications, EURASIP Signal Processing Journal, EURASIP Journal on Wireless Communications and Networking, Elsevier Wireless Networks.
- Conference Reviewer: IEEE INFOCOM (1999-2007), IEEE International Symposium on Information Theory (ISIT), ACM SIGMETRICS, ACM MOBICOM, ACM MobiHoc, IEEE WiOpt, IEEE International Conference on Acoustics Speech and Signal Processing (ICASSP), IEEE ICC, IEEE GLOBECOM, IEEE WCNC.
- Member of IEEE (Communications, Information Theory, Signal Processing, Engineering in Biology and Medicine societies)
- Member of Technical Chamber of Greece (T.E.E).

## 10. MISCELLANEOUS INFORMATION

- Languages: English and German (fluently), French (moderate), Greek (native)
- Birth date and place: December 17, 1974, Athens, Greece
- Citizenship: Greek
- Marital Status: Single
- Military obligations: fulfilled

## 11. BRIEF CURRICULUM VITAE

Iordanis Koutsopoulos is currently a Lecturer at the Department of Computer Engineering and Communications, University of Thessaly, in Volos, Greece.

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

From 1997 to 2002 he was a Fulbright Fellow and a Graduate Research Assistant with the Institute of Systems Research (ISR) of UMCP. He has held internship positions with Hughes Network Systems (HNS), Germantown, MD, Hughes Research Laboratories LLC, Malibu, CA,

and Aperto Networks Inc., Milpitas, CA, in the summers of 1998, 1999 and 2000 respectively. From September 2004 to August 2005 he has been a Visiting Lecturer with the Department of Computer Engineering and Communications, University of Thessaly. During the summer of 2005 he has held a visiting scientist position with the University of Washington, Seattle, USA.

Since August 2005 he is a Lecturer with the Department of Computer Engineering and Communications, University of Thessaly. He is also affiliated with Center for Research and Technology Hellas (CERTH), Institute for Telematics and Informatics.

His research interests are in the area of wireless network control, with emphasis on resource allocation, network, access and physical layer performance analysis of wireless networks, smart antennas, cross-layer design, sensor networks. More recent research activities include wireless network security and peer-to-peer network performance analysis.

He is a member of IEEE and the Technical Chamber of Greece (T.E.E)