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EDUCATION

Massachusetts Institute of Technology (M.I.T.)

Ph.D., Department of Electrical Engineering and Computer Science, June 1991
(GPA 4.9/5.0)

M.S., Department of Electrical Engineering and Computer Science, September 1988
(GPA 5.0/5.0)

National Technical University of Athens, Greece (N.T.U.A.)

Diploma in Electrical Engineering, July 1987
(GPA 9.80/10.0, ranked 1-st in 200).

MAIN SCIENTIFIC INTERESTS

- Economics of telecommunications networks: charging schemes and economic/incentives mechanisms for management of Internet traffic.
- Broadband access: technologies and applications, regulatory issues, demand analysis, design and cost analysis of access and transport networks.
- Auction mechanisms for allocation of spectrum, networking capacity and digital resources: design of mechanism, analysis of bidding strategies, design of intelligent agents to support user's bidding.
- Reputation-based incentives' mechanisms for electronic environments (peer-to-peer systems, e-marketplaces etc.)
- Telecoms regulation: Relevant markets' analysis, cost-based pricing, Universal Service.

ACADEMIC POSITIONS

Sept. 2006 – present Professor (in the field of Telecommunication Systems), Department of Informatics, Athens University of Economics and Business.

Dec. 2000 – Sept. 2006 Associate Professor (in the field of Telecommunication and Information Systems), Department of Informatics, AUEB.

Oct. '95 – Dec. 2000 Assistant Professor (in the field of Computer Networks), Department of Computer Science, University of Crete. Tenured: Febr. '99, Elected Associate Prof.: May 2000 - Member of the Telecommunications and Networks Division of the Institute of Computer Science, Foundation for Research & Technology-Hellas (I.C.S. - FO.R.T.H.).

OTHER WORKING EXPERIENCE

- Oct. '95 – present Held consulting appointments to: a) Greek telecommunications industry on: charging for services, regulatory issues, broadband access, network design and performance evaluation etc. b) the Greek Regulatory Authorities for Telecommunications and Post (EETT) and Energy (RAE) on: design of auctions for allocation of networking capacity, spectrum and other resources.
- Nov. '93 – Oct. '95 Project Coordinator for C.E.C.-funded RACE research projects, Development Programmes Department, INTRACOM S.A. (Hellenic Telecommunications and Electronics Industry).
- Aug. '91 – Oct. '93 Research Associate, with the Communication Networks Group, Department of Electrical Engineering and Computer Science, NTUA.
- Oct. '91 – Sept. '93 Lecturer in the Hellenic Naval Academy during military service in the Hellenic Navy.
- Sept. '87 – June '91 Research Assistant for Professor J.N.Tsitsiklis, at the Laboratory for Information and Decision Systems, M.I.T.

HONORS

- Technological Sciences Award of the Empireikos Foundation (1989-90).
- Vinton Hayes Fellowship in Communications, M.I.T. (Spring 1990).
- "Thomaides" (1985, 1987) and "Kary" (1987) Awards: Top Electrical Engineering Student of NTUA
- Fellow: National Fellowship Foundation of Greece (1983-1987).
- Award of the Technical Chamber of Greece (1983-1987).
- Student Contest of the Hellenic Mathematical Society:
1982: Honorable mention and participation in the Greek delegation at 23-rd International Mathematic Olympiad (Budapest, July 1982).
1981: First prize in the district of "Central Athens".

TEACHING EXPERIENCE

- Dec. 2000 – present Department of Informatics, Athens University of Economics and Business: Taught (or co-taught) two undergraduate and graduate courses in the field of computer networks, the graduate courses "Regulation Policy for Telecommunications" and "Performance evaluation of Computer Systems and Networks", and the undergraduate course "Computer Systems Architecture".
- Oct. '95 – Dec. 2000 Department of Computer Science, University of Crete: Taught (or co-taught) several undergraduate and graduate courses in the field of computer networks, and the undergraduate course "Introduction to Computer Science"

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| Spring '93 and '94 | Department of Electrical Engineering and Computer Science, NTUA:
Taught the graduate course "Teletraffic Theory and Models". |
| Jan. '92 – Apr. '93 | Hellenic Naval Academy: Taught the graduate course "Introduction to Signals and Communication Systems". |
| Spring '89 | Department of Electrical Engineering and Computer Science, M.I.T.:
Teaching Assistant in "Introduction to Mathematical Programming". |

PERSONAL

Born in Athens, Greece, in 1964

Speak English and French – Enjoy swimming, fine arts, reading, and traveling.

THESES

- **"Routing and Performance Evaluation in Interconnection Networks"**, Ph.D. Thesis (supervised by Prof. J.N.Tsitsiklis), Laboratory for Information and Decision Systems Report LIDS-TH-2035, M.I.T., May 1991.
- **"Transient Analysis of Some Open Queueing Systems"**, Master Thesis (supervised by Prof. J.N.Tsitsiklis), Laboratory for Information and Decision Systems Report LIDS-TH-1796, M.I.T., August 1988.
- **"Queueing Analysis of Slotted Buffered Multiple Access Protocols"**, Diploma Thesis (in Greek, supervised by Prof. E.D. Sykas, and E.N. Protonotarios) Department of Electrical Engineering, NTUA, July 1987.

SELECTED PUBLICATIONS

Has authored:

- 24 already published journal articles.
- 47 already published conference/workshop articles, with full-paper review.

Most of the recent publications are available in <http://nes.aueb.gr>

Below are listed recent journal publications:

- "A Mechanism that provides Incentives for Truthful Feedback in Peer-to-Peer Systems"**, T.Papaioannou and G.D.Stamoulis, To appear in the *Special Issue of Electronic Commerce Research Journal*
– Available in <http://www.springerlink.com/content/r7gk6n10514jkq73/>
- "Reputation-based Estimation of Individual Performance in Collaborative and Competitive Grids"**, T.Papaioannou and G.D.Stamoulis, *Future Generation Computer Systems* vol. 26, no.8, pp. 1327-1335, 2010 – Also available in <http://dx.doi.org/10.1016/j.future.2009.05.007>

- "Economic aspects of building software for service-oriented architectures"**, D. Antos, C. Courcoubetis, G. D. Stamoulis, *Concurrency and Computation: Practice and Experience*, Wiley, vol. 22, no. 10, pp. 2012-2025, 2010
– Also available in <http://onlinelibrary.wiley.com/doi/10.1002/cpe.1444/pdf>.
- "An Auction Mechanism for Allocating the Bandwidth of Networks to their Users"**, M.P.Dramitinos, G.D.Stamoulis and Courcoubetis –*Computer Networks*, vol 51, pp. 4979-4996, 2007 – Also available in <http://www.springerlink.com/content/faw2a4bxt84rvl8n/>
- "An Efficient Auction-Based Mechanism for Hierarchically Structured Bandwidth Markets"**, M.Bitsaki, G.D.Stamoulis, and C.Courcoubetis –*Computer Communications, Special Issue: Quality of Service of Future Internet*, Elsevier, vol. 29, no.7, pp. 911-921, April 2006.
- "Reputation-based Policies that Provide the Right Incentives in Peer-to-Peer Environments"**, T.Papaioannou and G.D.Stamoulis –*Computer Networks Journal, Special Issue on Management in Peer-to-Peer Systems: Trust, Reputation and Security*, Elsevier, vol. 50, no 4, pp. 563-578, March 2006.
- "Auction-based Resource Reservation in 2.5/3G Networks"**, M.Dramitinos, C.Courcoubetis, and G.D.Stamoulis – *Kluwer/ACM Mobile Networks and Applications [MONET], Special Issue on Optimization of Wireless and Mobile Networks*, vol. 9, no. 6, pp. 557-566, December 2004.

Also, below are listed selected recent conference publications:

- "A Markov model for the evaluation of cache insertion on peer-to-peer performance"**, I. Papafili and G. D. Stamoulis – *NGI2010*, 6th EuroNF Conference on Next Generation Internet, Paris, France, June 2010 – Also available in <http://nes.aueb.gr/users/gd.html>
- "Improvement of BitTorrent Performance and Inter-Domain Traffic by Inserting ISP-owned Peers"**, I. Papafili, S. Soursos, G. D. Stamoulis – *ICQT'09*, 6th International Workshop on Internet Charging and QoS Technologies, Aachen, Germany, May 2009 – Also available in <http://nes.aueb.gr/users/gd.html>
- "Market Mechanisms for Trading Grid Resources"**, C. Courcoubetis, M. Dramitinos, T. Rayna, S. Soursos and G. D. Stamoulis – *GECON 2008*, The 5th International Workshop on Grid Economics and Business Models, Las Palmas, Spain, August 2008.
- "Reputation-based Estimation of Individual Performance in Grids"** T.G.Papaioannou and G. D. Stamoulis – *IEEE CCGRID 2008, 8th International Symposium on Cluster Computing and the Grid*, Lyon, France, May 2008.
- "Achieving Honest Ratings with Reputation-based Fines in Electronic Markets"** T.G.Papaioannou and G.D.Stamoulis – *IEEE INFOCOM 2008*, Phoenix, AZ, USA, April 2008.
- "Economic Aspects of Building Software for Service Oriented Architectures"** D.Antos, C.Courcoubetis, and G.D.Stamoulis – *Workshop on Economic Models and Algorithm for Grid Systems (EMAGS) of 8th IEEE/ACM International Conference on Grid Computing (GRID 2007)*, Austin, Texas, USA, September 19, 2007.
- "A Mechanism for Auctioning Alternative Paths"** S.Routzounis and G.D.Stamoulis – *Workshop on Game Theory for Networks (GAMENETS 2006) of 1st International Conference on Performance Evaluation Methodologies and Tools (VALUETOOLS 2006)*, Pisa, Italy, October 14, 2006.

- "A Random Walk Model for Studying Allocation Patterns in Auction-based Resource Allocation"**, M.Dramitinos, G.D.Stamoulis, and C.Courcoubetis – *5th International Workshop on Advanced Internet Charging and QoS Technologies (ICQT 2006)*, St Malo, France, June 27, 2006 (Best Student-paper Award).
- "Enforcing Truthful-Rating Equilibria in Electronic Marketplaces"** T.G.Papaioannou and G.D.Stamoulis –*Workshop on Incentive-Based Computing of 26th International Conference on Distributed Computing Systems (ICDCS 2006)*, Lisboa, Portugal, July 4-7, 2006.
- "Auction-based Resource Reservation in 3G Networks Serving Multicast"**, M.Dramitinos, G.D.Stamoulis, and C.Courcoubetis –*5th IST Mobile Summit*, Myconos, Greece, June 4-8, 2006.