



Dimitris VAROUTAS

Title: Lecturer on Technoeconomic Analysis and Design of Telecommunications Systems

Sector: Communications and Signal Processing

Phone: +30 210 7275318 (office)

Fax: +30 210 7275214 (office)

Email: D.Varoutas@di.uoa.gr Web page: <http://cgi.di.uoa.gr/~arkas/en/index.htm>

Academic Qualifications:

- Ph.D. in Telecommunications (2003) Dept. of Informatics and Telecommunications, Univ. of Athens
- M.Sc. in Electronics and Telecommunications (2000), Departments of Physics and Informatics, Univ. of Athens
- B.Sc. in Physics (1993) Dept. of Physics, Univ. of Athens

Appointments:

- Aug 2005 - today: Lecturer, Dpt. of Informatics & Telecommunications, University of Athens
- Apr 2002 – Feb 2006: Visiting Lecturer/Assistant Prof., Dpt. of Telecomm Science & Technology, Univ. of Peloponnese.
- Sep 1997 – Feb 2001: Visiting Lecturer, Dpt. of Electronics, Technological Institute (TEI) of Athens.
- 1993 – 2005: Research assistant, Dpt. Informatics and Telecommunications, Univ. of Athens.

Teaching Activities: (current)

Undergraduate courses

- Electromagnetics - Optics
- Telecommunications Networks
- Fields and Waves

Postgraduate courses

- Antennas
- Technoeconomics of telecommunications networks
- Investments under uncertainty

Acting supervision for 6 Ph.D. students

Research Interests/Activities: (last 10 years)

- Telecommunications systems and networks. Several activities under EU funded projects. Main focus on components and subsystems modelling
- Technoeconomic evaluation of networks. Participation in several EU funded project. Leading technoeconomic activities in ICT OMEGA project
- Telecommunications business and markets. Coordination of several FTTx studies in national level for government and regulator
- Optical communications and networking. Modelling of FTTx architectures.
- Broadband communications and services. Analysis of broadband strategies.
- Wireless communications, with emphasis on free space optical communications and game-theoretic approaches in networking

Scientific Publications/Citations:

- 35 publications in refereed journals (8 IEEE and IEEE/OSA journals)
- 50 refereed conference publications (4 IEEE Globecom, 7 IEEE PIMRC)
- 4 special issues organized in international journals
- 230 citations. (h-index 9)

Top five publications

- “On the economics of Time and Wavelength Domain Multiplexed Passive Optical Networks” by Th. Rokkas, D. Katsianis, Th. Kamalakis and D. Varoutas, IEEE/OSA J. Optical Comm and Networking, vol. 2, no 12, pp. 1042-1051, Dec 2010.
- “Techno-economic evaluation of FTTC/VDSL and FTTH roll-out scenarios: discounted cash flows and real option valuation” by Th. Rokkas, D. Katsianis and D. Varoutas, IEEE/OSA J. Optical Comm and Networking, vol. 2, no. 9, pp. 760-772, Sep 2010.
- “Modeling competition in the telecommunications market based on concepts of population biology”, by C. Michalakelis, T. Sphicopoulos, D. Varoutas, IEEE Trans. SMC-C, vol.41, no 2, pp. 200-210, Mar 2011
- “Technoeconomic Evaluation of the Major Telecommunication Investment Options for European Players”, by B. T. Olsen, D. Katsianis, D. Varoutas, K. Stordahl, J. Harno, N.K. Elnegaard, I. Welling, F. Loizillon, T. Monath, P. Cadro, IEEE Network, vol. 20, no 4, July 2006.
- “Connectivity Issues for Ultraviolet UV-C Networks”, by A. Vavoulas, H.G. Sandalidis and D. Varoutas, IEEE/OSA J. Optical Comm and Networking, vol. 3, no 3, pp. 199-205, Mar 2011.

Other Activities:

- Project manager/scientific coordinator in 2 R&D projects and principal researcher in more than 20 R&D projects
- General Chair and co-Chair CTTE2008, 2009, 2010, 2011 and member of more than 10 TPC.
- Member of the Editorial Board of Netnomics, Springer.
- R&D project evaluator for Belgium and Cyprus
- Invited speaker in ITU, Geneva for Telecommunications investments risk
- Deputy Vice Chairman of ADAE, the National Authority of Telecommunications Security and Privacy (since 2007)