



Dimitris Syvridis

Title: Professor on Optical communications

Sector: Communications and Signal Processing

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Academic Qualifications:

- Ph.D. in Electron Devices (1988) Dept. of Physics, University of Athens
- M.Sc. in Electronics and Computers (1984), Physics Department, University of Athens
- B.Sc. in Physics (1982) Dept. of Physics, University of Athens

Appointments:

- 1997 - today : Professor, Dpt. of Informatics & Telecom., University of Athens
- 1994 - 1997 : Senior Researcher, Opt. Communications Group, University of Athens
- 1990 - 1994 : Senior Researcher, Institute of Quantum Electronics, Swiss Federal Institute of Technology (ETH Zurich)
- 1989 - 1990 : Post-Doctoral Fellowship, FORTH, Heraklion Crete

Teaching Activities: (current)

Undergraduate courses

- Physics
- Optical communications and Networks
- Photonics

Postgraduate courses

- Optical Networks
- Photonic Integrated Circuits

Supervisor of 13 Ph.D. dissertations (completed) and 5 underway

Research Interests/Activities: (last 10 years)

- Semiconductor Optoelectronics
- Ultra High bit rate Optical Communications Systems
- Optical Networks
- All Optical Signal Processing
- Sensing
- Security at the Physical Network Layer

European Research projects

Project Coordinator of :

European IST FP6 Project "**PICASSO**"

European IST FP7 Project "**CLARITY**"

Scientific Coordinator on behalf of UoA

IST FP5 Project "**OCCULT**"

FP6 IST Project "**e_Photon-ONE**"

FP6 IST Project "**WAPITI**"

FP6 IST Project "**e-Two**"

FP7 ICT Project "**FASTDOT**"

FP7 ICT Project "**PHASORS**"

FP7 ICT Project "**BONE**"

FP7 AEROSPACE "**ON-WINGS**"

FP7 ICT Project "**DOGGIES**"

Coordinator of more than 15 National Projects and Project funded by the private sector

Scientific Publications/Citations:

- 103 publications in refereed journals (60 IEEE journals/transactions, 2 Nature, 1 PRL)
- 68 refereed conference publications (8 ITC, 8 DATE, 1 DAC)
- 2 book chapters
- More than 1000 citations.
- 2 International patents

Top five publications

- A. Argyris, D. Syvridis, et.al., "Chaos-based communications at high bit rates using commercial fibre-optic links", **Nature**, vol. 438, n. 7066, pp. 343-346, November 2005
- R.Slavik, F.Parmigiani A.Bogris, D.Syvridis, et.al., "All-optical phase and amplitude regenerator for next-generation telecommunications systems", **Nature Photonics** 2010 pp.690-695
- H. Simos, A. Bogris, and D. Syvridis, "Investigation of a 2R All Optical Regenerator Based on Four-Wave Mixing in a Semiconductor Optical Amplifier", **IEEE J. Lightwave Technol.**, vol. 22, pp. 595-604, Feb. 2004.
- A. Argyris, M. Hamacher, K.E. Chlouverakis, A. Bogris, D. Syvridis, "A photonic integrated device for chaos applications in communications", **Physical Review Letters**, vol. 100, 194101 (May 2008).
- A. Bogris, P. Rizomiliotis, K.E. Chlouverakis, A. Argyris and D. Syvridis, "Feedback phase in optically generated chaos: A secret key for cryptographic applications", **IEEE J. of Quantum Electron.**, vol. 44, n. 2, pp. 119-124 (February 2008)

Other Activities:

- Member of program committees, Intl. workshop organiser
- Auditor/Evaluator of European R&D projects.