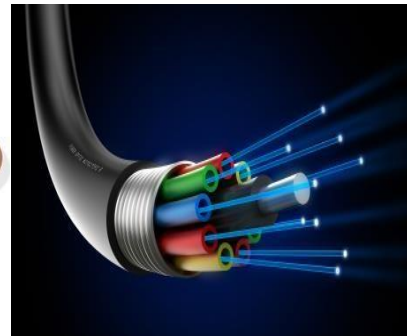
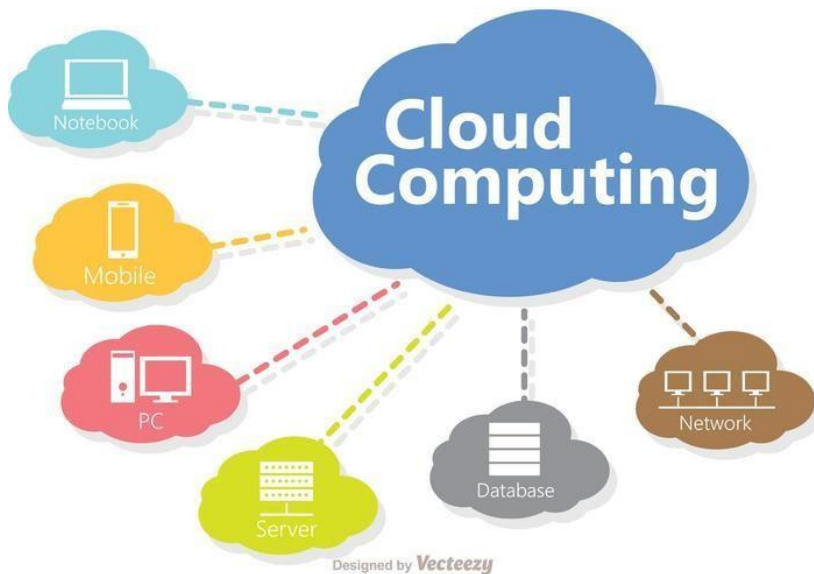
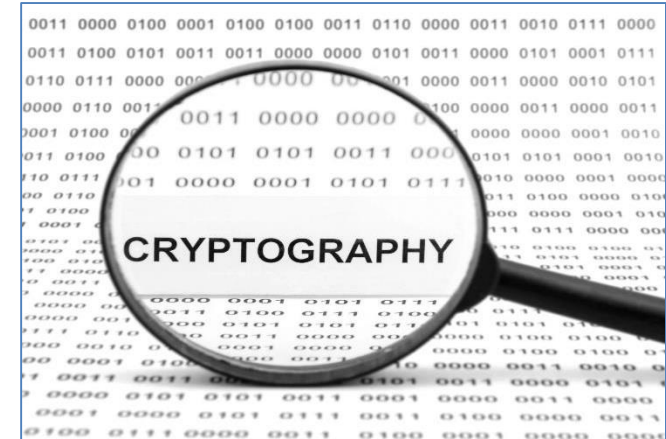
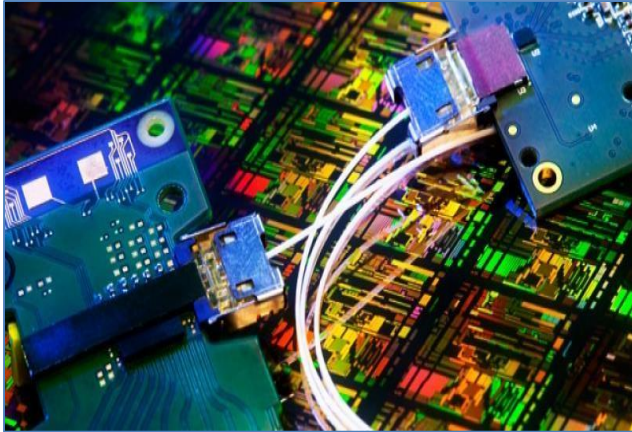




Postgraduate Programme «Communication Networks and Systems Security»



Postgraduate Programme

«Communication Networks and Systems Security»

- The international environment of telecommunications and digital communications is changing radically
 - fiber optic networks,
 - optical-wireless networks
 - 5G/6G networks
- Plenty of Apps
 - IoT, autonomous cars, online gaming, personal cloud services, remote health services, etc
- Safety is essential
 - in the fight against electronic crime,
 - in the protection of intellectual property in the digital age,
 - in the protection of personal data and ensuring the confidentiality of communications.

Postgraduate Programme «Communication Networks and Systems Security»

- The School of Informatics, AUTh, since 2018-19 offers a Postgraduate Programme with the title:

Communication Networks & Systems Security

- **Objective:** specialization in Communication Networks and/or Systems Security, in the following areas:

- Core networks
- Access networks, wireless and optical networks
- Cloud technologies
- Photonic technology/ Optical switching
- New generation of components and systems
- Cryptography
- Security of wireless and optical networks
- Internet Security
- Security and privacy of information and systems



Duration of Studies -ECTS

- The duration of studies is defined as a minimum of 3 semesters for full-time postgraduate students
 - the time spent preparing the diploma thesis is also included,

- Part-time study is possible for working students
 - with a total duration of studies of six 6 semesters.

- 90 ECTS

Courses

Specialization: Communication Networks



Semester A

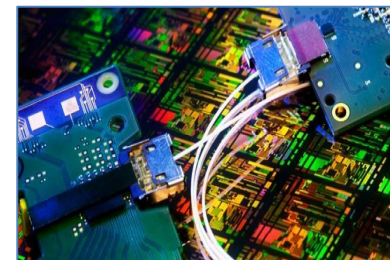
- Network Infrastructure- CC
- Optoelectronic Systems Technology- CC
- Distributed Processing in Grids and Clouds- E
- Advanced Topics on Networks- E
- Network Vulnerability Control - E
- Advanced Topics on Biological Nanonetworks -CC
- Internet of Things- E

Semester B

- Optical Networks: Architectures and Security Issues- CC
- Wireless Networks: Architectures and Security Issues- CC
- Advanced Topics on Optical Switching- CC
- Advanced Topics on Network Security- E
- Modelling, Simulation and Performance Evaluation on Parallel and Distributed Systems -E

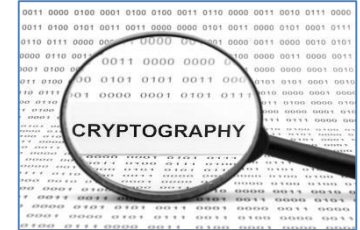
Semester C

Diploma Thesis



Courses

Specialization: Systems Security



Semester A

- Cryptography - CC
- Software and Computer Systems Security-CC
- Advanced Topics on Networks- E
- Distributed Processing in Grids and Clouds- E
- Network Infrastructure - E
- Network Vulnerability Control - CC

Semester B

- Optical Networks: Architectures and Security Issues- CC
- Wireless Networks: Architectures and Security Issues- CC
- Advanced Topics on Network Security- CC
- Advanced Topics on Optical Switching- E
- Modelling, Simulation and Performance Evaluation on Parallel and Distributed Systems -E

Semester C

Diploma Thesis



Academic Staff

Teaching Personnel

- ✦ G. Papadimitriou (Professor)
- ✦ E. Karatza (Emeritus Professor)
- ✦ A. Miliou (Professor)
- ✦ P. Nikopolitidis (Professor)
- ✦ N. Pleros (Professor)
- ✦ P. Katsaros (Associate Professor)
- ✦ S. Petridou (Associate Professor)
- ✦ K. Draziotis (Assistant Professor)
- ✦ K. Kantelis (Assistant Professor)
- ✦ G. Pallas (IT Center AUTH, responsible for the network infrastructure)

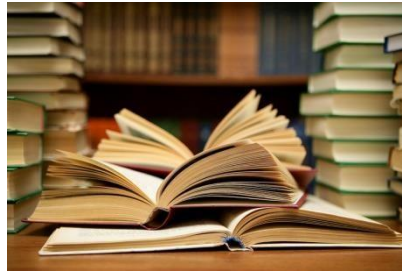


Research in the field

Activity during the last eight years

18 Books

- 5 in English
- 13 in Greek



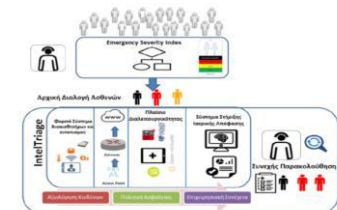
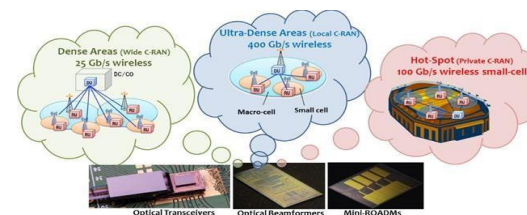
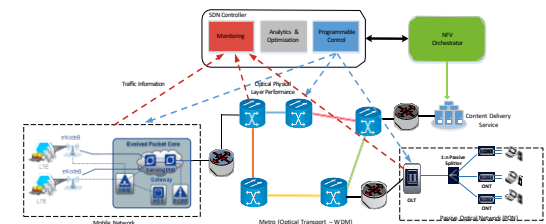
>950 Research publications

- International Scientific Journals
- International Conferences



>30 Research and Development Projects

- EU
- National agencies
- NATO



Employment prospects

Operators



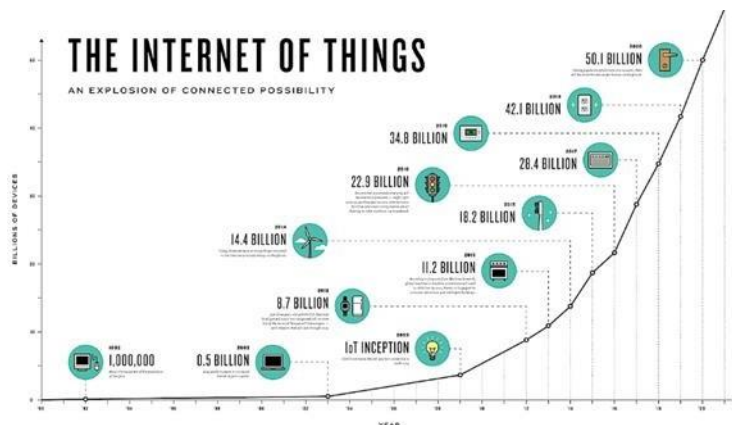
- Systems Security Administrator
- Network Security Manager
- Network Architecture (+ cloud and Data Centers)
- Network administrator



Banks



Research Projects



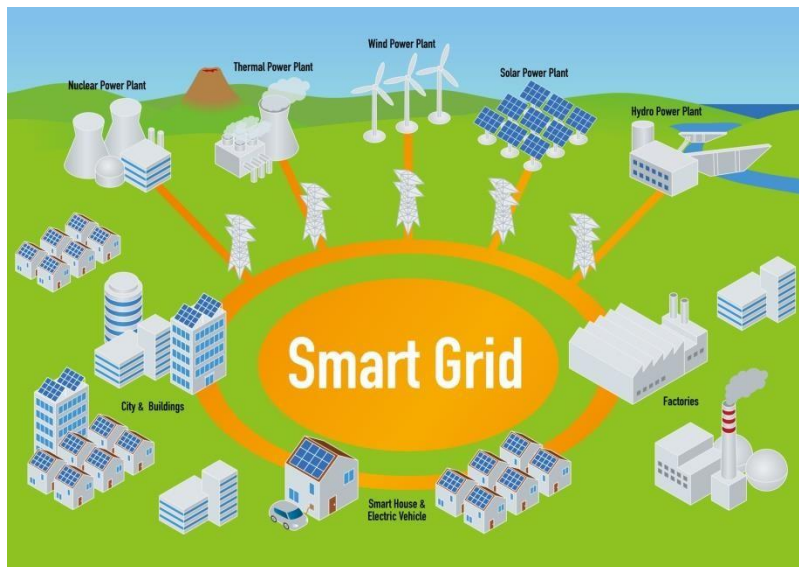
Employment prospects

Industry

- Systems Security Administrator
- Network Security Manager
- Network Architecture (+ cloud and Data Centers)
- Network administrator



Energy



- Safety and reliability management
- Designing energy efficient networks (Topology, Reliability, Flexibility)
- Network management

Thank you for your attention!



Information / Contact

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Professor Amalia Miliou: amiliou@csd.auth.gr

Apply at: <http://cnss.csd.auth.gr/admissions>

Contact numbers: 2310998930, 2310998709, 2310998410