The COmputer Networks & Telematics Applications (CONTA) laboratory, directed by Prof. Anastasios A. Economides, is a Research & Development laboratory under the regulation of the University of Macedonia, Thessaloniki, Greece. The CONTA laboratory focuses its research activities on three important areas of Information and Communications Technology (ICT), namely on *Networking Technologies*, *Techno-Economics & Competition in Telecommunication Networks and E-Learning*.

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CONTA Laboratory

COmputer **N**etworks & **T**elematics **A**pplications
Research & Development Laboratory

Egnatia 156,
Thessaloniki, Greece, GR-54636

Homepage: http://conta.uom.gr/conta/uk/index.htm

A short presentation of the research conducted by the CONTA laboratory follows:

Networking Technologies:

The CONTA laboratory concentrates on the development of high-performance networking technologies including architectures, protocols and optimization models for wireless and wired telecommunication networks.

Security in Communication Networks:

The laboratory develops network security solutions that combine and enrich conventional security approaches with novel visual analytic technologies protecting the network operation from malicious actors.

Techno-economics & Competition in Telecommunication Networks:

The laboratory pursues activities related to ICT techno-economics, investment justification in ICT business field, cost/benefit analysis and economic impact of telecommunication systems, as well as dynamic pricing of telecommunications services.

Adaptive Testing & Assessment:

The CONTA laboratory conducts fundamental research in the broad field of adaptive & personalized feedback, affective & emotional testing/assessment as well as on the acceptance of computer-based assessment.

Learning Analytics and Educational Data Mining for intelligent feedback:

The laboratory focuses on the exploitation of learning analytics capabilities for data-driven decision making in education, targeting towards the automated generation and delivery of personalized recommendation and feedback services.

"Committed to ICT-enabled Research. Committed to a Brighter Future."

The CONTA laboratory vision

Mobile-based Assessment Modeling:

The CONTA lab investigates the acceptance of ubiquitous and mobile testing / assessment methods as well as the students' motivation in learning in authentic, real-life contexts.

The CONTA laboratory is strongly interested in participating in proposals in the following topics of the H2020 Work Programme 2015:

ICT-08-2015: Boosting public sector productivity and innovation through cloud computing services

ICT-20-2015: Technologies for better human learning and teaching

ICT-30-2015: Internet of Things and Platforms for Connected Smart Objects

ICT-16-2015: Big data – research

DS-03-2015: The role of ICT in Critical Infrastructure Protection

DS-04-2015: Information driven Cyber Security Management

EUB-1-2015: Cloud Computing, including security aspects

EE-11-2015: New ICT-based solutions for Energy Efficiency

PHC-25-2015: Advanced ICT systems and services for integrated care

FCT-04-2015: Internet Forensics to combat organized crime

FCT-06-2015: Detection and analysis of terrorist related content on the Internet

FCT-15-2015: Better understanding the role of new social media networks and their use for public security purposes

Previous experience in FP7 and H2020 projects
The CONTA laboratory has extensive experience in collaborative European-level and national research projects. The laboratory has also been involved in other EU funded initiatives, notably the South-East European eInfrastructure (SEER-EI), as well as the COST (European Cooperation in Science and Technology).

The CONTA laboratory consists of high-qualified and experienced researchers, including 4 post-doctoral scientists, 5 Ph.D. and 7 M.Sc. students. The laboratory has access to extensive hardware and software facilities and is closely affiliated with the Information Technologies Institute (ITI) of Centre for Research & Technology-Hellas, Information Technologies Institute (**CERTH/ITI**).

For more details please visit our website http://conta.uom.gr/conta/uk/index.htm