



**INFORMATICS & TELEMATICS INSTITUTE**  
Centre for research and technology - Hellas

**The Informatics and Telematics Institute (ITI)** was founded in 1998 as a non-profit organisation under the auspices of the General Secretariat of Research and Technology of Greece, with its head office located in Thessaloniki, Greece. Since 10.3.2000 it is a founding member of the Centre of Research and Technology Hellas (CERTH) also supervised by the Greek Secretariat of Research and Technology. The ITI Director is Maria Petrou.

CERTH-ITI has a staff of 10 Researchers, and more than 80 employees working on various aspects of research in information technology. The Institute collaborates with Imperial College, the University of Surrey and the Aristotelian University of Thessaloniki for the award of PhD degrees.

The development of the infrastructure of ITI-CERTH was financed by the National Research fund EPET II with € 2,3 million in the period 1998-2000. In 2002 and 2005, selected committees of experts in Information and Telecommunications Technology from European countries (other than Greece) evaluated the GSRT institutions. ITI was graded with 9,65/10 and 4,4/5 respectively and on this basis it was awarded grants of more than 800 k€.

In 2005, ITI's research team was awarded the "European Group Technical Achievement Award" of the European Association for Signal, Speech and Image Processing (EURASIP) for significant contributions to the theory and application of digital filtering and image processing and coding.

**Research and development expertise:** Image and Signal Processing, Computer & Cognitive Vision, Pattern Recognition and Machine Learning, Human Computer Interaction, Virtual and Augmented Reality, Artificial Intelligence, Security and Surveillance, Biomedical Applications, Environment, Geoscience and Remote Sensing, Communications and Networking, Multimedia, Database and Information Systems, Social Media Analysis, e-Government, Cultural and Educational Technology, and Integrated Commercial Solutions.

**Industrial expertise:** In January 2005, the first spin-off company, named VRSENSE S.A., was established in order to promote the business perspective of ITI's research results. VRSENSE focuses on applied research in informatics and telematics and specializes on the development of innovative virtual reality applications and semantic management of multimedia.

**Products:** Based on the significant know-how gained through participation in European and National research and development projects, the institute provides a range of innovative services to organizations and companies in the area of information and communication technologies.

Through the spin-off company of ITI, VRSENSE SA, we provide licensing of innovative products and technologies.

For relevant technologies, research and projects, please have a look at:

- <http://www.iti.gr/iti/projects/index.html>
- <http://www.iti.gr/iti/about/units.html>

Please contact us directly for specific needs, solutions and ideas for collaborations.

**Innovation:** ITI-CERTH is one of the leading Institutions of Greece in the fields of Informatics, Telematics and Telecommunications, with long experience in numerous European and national R&D projects. ITI-CERTH has participated in more than 50 research projects funded by the European Commission (IST FP5-FP6) and more than 85 research projects funded by Greek National Research Programmes and Consulting Subcontracts with the Private Sector (I&T Industry).

For the last 10 years, the publication record of ITI includes more than 200 scientific publications in international journals, more than 400 publications in conferences and 65 books and book chapters..

**Clients:** CERTH-ITI through its participation in a number of European and National projects, collaborates with a very large number of companies, organisation, public and academic institutions. CERTH-ITI also provides direct services to International, European and Local companies, such as MOTOROLA (UK & US, Telecommunications Recommender System Development via Automatic Semantic Induction) and ARAMCO (Netherlands, Oil company), as well as to the public sector: Development of a Digital Management System for the General State Archives, Museums, Preparation of the Business Plan for the Prefecture of Central Macedonia.

### **Major research projects:**

- CHORUS+ — Coordinated approach to the European effort on audio-visual Search engines + (2010: FP7 ICT - CA)
- GLOCAL — Event-based Retrieval of Networked Media (2009: FP7 ICT - IP). Social media processing to identify events.
- WeKnowIt — Emerging, Collective Intelligence for personal, organisational and social use (2008: IST - IP). Developing highly scalable and noise resilient community detection algorithms for the detection of meaningful topics, entities, points of interest, social connections and events.
- ASSETS — Advanced Search Services and Enhanced Technological Solutions for the European Digital Library (2010: FP7 - CIP - ICT PSP)
- PESCaDO — Personalized Environmental Service Configuration and Delivery Orchestration (2010: FP7 ICT - CA)
- I-SEARCH — A unified framework for multimodal content SEARCH (2010: FP7 ICT - STREP)
- ACCESSIBLE — Accessibility Assessment Simulation Environment for New Applications Design and Development (2008: ICT - STREP)
- AEGIS — Open Accessibility Everywhere: Groundwork, Infrastructure, Standards (2008: ICT - IP)

For a complete list please visit: <http://www.iti.gr/iti/projects/index.html>

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