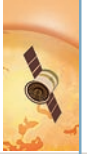


Information and iTIC communication at the service of industry



The use of new technologies to find solutions for industrial problems is an integral part of the activities of the Institute of information and communication technologies (iTIC). One of its objectives is to be a link between research and industry via four competence groups working on the execution of mandates as well as applied research and development projects (aR&D).

Competence groups / Research themes The diversity of the competence groups makes it possible to respond to society's emergent demands:

Information and multimedia systems

Information and document engineering permits the structuring, management and diffusion of information.

- Information system architectures
- Multimodal interfaces
- Research, analysis and treatment of multimedia information

Mobile systems

Mobile systems encourage the emergence of new kinds of voice and data services (contextual).

- Nomadic and distributed services
- Ad-hoc networks of sensors
- Applications and mobile devices

Communication systems

Today, the technologies used must offer high bandwidths, service quality, performance and security.

- Enterprise networks, new generation networks
- Network security, application security, data security
- Voice and multimedia over IP networks
- Service quality optimization
- Embedded and real time applications





Grid & Ubiquitous Computing

The competence group is active in the areas of architectures and the implementation of systems for the large-scale sharing of computer resources (computing and data).

- Parallel and distributed systems
- High-performance computing (HPC)

Partnership services

The iTIC can count on the know-how of 60 professors and scientific assistants. Cooperation concepts adapted to every company are proposed. Transparency and confidentiality are guaranteed: companies thus benefit fully from the spin-offs of their developments.

Equipment

The iTIC has several specialized laboratories guaranteeing leading-edge research:

- Computer networks
- IT security
- Network management
- Micro-informatics
- Information technology
- Signal processing
- GRID
- Satellite communication



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