



UMR 6285 LABORATORY IN INFORMATION SCIENCES AND TECHNOLOGY, COMMUNICATION AND KNOWLEDGE Lab-STICC

The scientific project of Lab-STICC is encapsulated in the title «From sensors to knowledge: Communicating and deciding».

The laboratory is organized around three centers that give concrete expression to the goal of relating people and communication systems:

- ▶ the MOM Department (Microwave, Optoelectronics, and Materials) focuses upon materials, sensors, and microwave antennae;
- ▶ the CACS Department (Communications, Architectures, Circuits and Systems) uses its multiple expertise regarding systems design, algorithm/architecture interaction, new methods for multisensor systems optimization, and the use of advanced mathematical methods to meet the constraints of «discretization»;
- ▶ the CID Department (Knowledge, Information, Decision) is devoted to the methods used for collaborative decision making to use information generated by a variety of sensors.

Telecommunications are the main domain of application of the laboratory, particularly regarding the sea, the environment, defense, and some activities related to the domain of healthcare.

STAFF

- 521 members, including
- ▶ 235 researchers (35 UBS)
 - ▶ 207 doctoral students (27 UBS)

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<https://www.labsticc.fr/en/francais/>

PARTNERS



SCIENTIFIC DOMAINS

Information and Communication Sciences and Technology.

APPLICATION SECTORS

Defense, Information technology and software, Logistics /Transport, Telecoms.

EXPERTISE

CAD tools for electronics.
Electronic architecture design.
High-speed signal processing architecture (error correcting codes, demodulation).
Digital methods and optimization, software/hardware/communication for self-adaptation methods in uncertain environments.
Sensor networks and intelligent environments (habitat, disability, sailing, environment), software engineering (modeling, real time, embedded OS, code generation).
Decision support in crisis situations: smart communication of information.
Human cooperation - autonomous systems.

SPECIFIC EQUIPMENT

Platform to assess the security of electronic circuits.
Radio communication platform.
Systems environment for personal assistance.
Tools and development maps on FPGA.

SCIENTIFIC COLLABORATION

International: Numerous partnerships with foreign universities (Thailand, Italy, Canada, Australia, US, UK, Germany, Brazil, Peru).

INDUSTRIAL COLLABORATION

International: 12 cooperation projects with international companies (UK, Greece, Japan, Vietnam, US, Germany, Norway, Korea).

2 PLATFORMS

- The Cyber Security Center dealing with the protection of embedded systems and connected devices;
- SCAP Industry of the Future dealing with cyberphysical systems in industrial protection.

KEYWORDS

Telecommunications / Communications / Digital / Embedded systems / Statistics / Security.