

ICTEAM institute

What does ICTEAM stands for ?

Information and Communication Technologies,
Electronics and Applied Mathematics

The Institute is currently home for more than 40 professors and more than 200 researchers. These researchers carry out both basic and applied research in key fields of information and communication technologies, electronics, computer science and applied mathematics. Have a look at our publications : they show the breadth and the depth of our research.

ICTEAM history

For a few decades, the research at UCLouvain in computer science, electrical engineering and applied mathematics was organized in small-scale laboratories: Computer Science and Engineering Laboratory, Microelectronics Laboratory, Telecommunications and Remote Sensing Laboratory, Microwave Laboratory and Mathematical Engineering Laboratory. With the evolution of technologies towards complex systems, it became clear that these laboratories could benefit from each other to tackle modern theoretical and technological challenges. This led to the creation of the ICTEAM institute in 2010 to gather researchers in these fields under a common organization with the mission to foster collaboration across disciplines.

Making a good poster

See [1].

Technical facilities

ICTEAM manages one technological platform (WELCOME) and is the reference institute for another platform (WINFAB):

- The **WELCOME** facility (Wallonia ELectronics & COmmunications MEasurements) is a state-of-the-art technology platform providing multidisciplinary tools in the field of electrical and electromagnetic characterization. WELCOME offers a wide variety of electrical and electromagnetic measurement techniques ranging from the physical behavior of materials, sensors and devices, to system architecture and signal propagation.
- The **WINFAB** technology platform (Wallonia Infrastructure Nano FABrication) is dedicated to micro- and nano-fabrication. The platform maintains a 1000 m² cleanroom infrastructure with a large high-tech equipment fleet (more than 50 machines), and offers access to a wide range of advanced techniques for thin-film deposition, thin-film etching, surface patterning, micromachining and back-end processes.

Key numbers

Our Institute comprises about 300 members including 43 academics, 180 researchers (PhD students and postdocs), 14 administration staff members and 18 computer scientists and technicians. About 25 PhD theses are defended yearly, and an average of 200 journal papers are published per year. The ratio between UCLouvain funding and external funding is about 12 % UCLouvain - 88 % external.

References

- [1] Claude Elwood Shannon. “A mathematical theory of communication”. In: *Bell system technical journal* 27.3 (1948), pp. 379–423.