UMR 6074
INSTITUTE OF RESEARCH
IN COMPUTER SCIENCE
AND RANDOM SYSTEMS
IRISA

IRISA (Institute of Research in Computer Science and Random Systems), created in 1975, is a joint research unit (UMR) for information technology, artificial intelligence, digital signals and images, and robotics. Covering all these topic areas, IRISA is the largest research laboratory in Brittany, present on the campuses of Rennes, Vannes, and Lannion.
Within UBS, IRISA develops activities in several information technology domains:

► software architecture
► image synthesis and analysis
► complex image processing
► gesture interaction
► data mining
► mobile information technology
► business intelligence

UBS researchers contribute to 4 of the IRISA UMR:

► ARCHWARE (software architecture)
► CASA (communication and services in intermittent connectivity networks)
► EXPRESSION (complex data mining, analysis, synthesis, multimedia and interaction)
► OBELIX (environment observation through complex imaging).

STAFF

805 members, including
► 318 researchers (26 UBS)
► 252 doctoral students (22 UBS)

CONTACT UBS

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PARTNERS

SCIENTIFIC DOMAINS

Bio-information technology, systems security, new software architectures (manycores, Cloud computing), virtual reality, artificial intelligence.

APPLICATION SECTORS

Environment, Healthcare, ICT, Information technology, Transport, Logistics, Multimedia.

EXPERTISE

Large-scale systems.
Networks, telecommunication, and services.
Architecture.
Language and software engineering.
Digital signals and images, robotics.
Media and interactions.
Data and knowledge management.

SPECIFIC EQUIPMENT

GenOuest platform for bio-information technology.
GRID'5000 platform.
NEURINFO platform.
5 robotics platforms
IMMERSIA virtual reality platform.
MOCAP gesture-capture platform.
Cybersecurity platform.

SCIENTIFIC COLLABORATION

International: various laboratories (UK, Belgium, Germany, Switzerland, the Netherlands, Italy, Spain, US, Canada).
European projects : kic EIT Digital

INDUSTRIAL COLLABORATION

International: Texas Instr., IBM, Google, Intel, etc.

VALORIZATION

Research results are invested into numerous collaborations with industrial partners. IRISA research has given rise to several start-ups.