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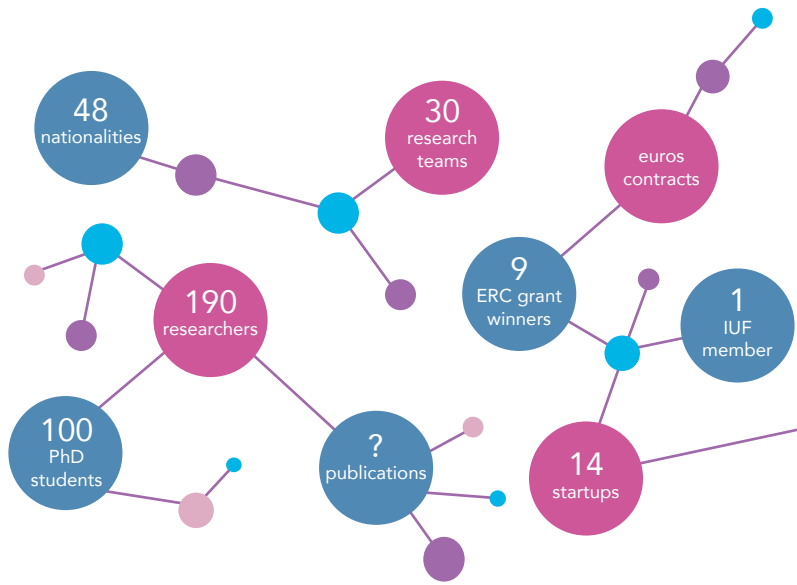
Loria

Lorraine Research Laboratory in Computer Science and its Applications



ABOUT US

Loria is a French research laboratory supported by CNRS, Inria and University of Lorraine. It has the status of a UMR (Mixed Research Unit). Formed in 1997, the lab's mission is to conduct fundamental and applied research in computer science and Information and Communication Technology (CS & ICT).



FACILITIES & TECHNOLOGICAL PLATFORMS

High Security Lab

The High Security Lab aims to develop research in the domains of secure networks, Internet communications, and telecommunication equipment. It is intended to focus on three main expertise fields: virology, network analysis and protection and vulnerability detection in communicating systems.

Honeypots, 10 millions
Malware, forensics platform,
cyber-range.

Creativ'Lab

The Creativ'Lab CPS (Cyber-Physical System) and Robotics is the new platform at Loria. This unique place of innovation aims to bring together multiple research activities such as drone (UAV), additive manufacturing, acquisition of multimodal data around the human, robotics, Brain Computer Interface and robotics for autonomy with the Smart Room.

Robots, humanoid robots,
drone arena, 3D printers,
robots workshops.

GRID 5000

Grid 5000 is an experimental computer infrastructure made out of large scale computation grids, aiming to promote research in the field of grid computing, service infrastructures, peer-to-peer systems, networks and the next generation Internet.

MBI

As part of the north-eastern node of the French national bioinformatics network, the LORIA's MBI cluster supports a wide range of tools for structural bioinformatics and for mining complex biological data.

ROBOTEX

Loria is a member of **Robotex**,
the national network of robotics platforms.



TRANSVERSAL AXES & 5 SCIENTIFIC DEPARTMENTS

Department / Transversal Axe	1 - Algorithms, Computation, Image and Geometry sylvain.lazard@ loria.fr	2 - Formal Methods horatiu.cirstea@ loria.fr	3 -Networks, Systems and Services ye-qiong.song@ loria.fr	4 - Natural Language Proces- sing & Knowledge Discovery bruno.guillaume@ loria.fr	5 - Complex Systems, Artificial Intelligence and Robotics patrick.henaff@ loria.fr
Cyber- BioHealth		Safety		Big data, Deep learning, Machine learning	Structural bioinformatics, Neurosciences
Computer Security		Malware automated deduction, Protocol verification, Quantum computation, Safety, Cryptography	Internet of Things, Service management	Big data, Deep learning, Machine learning	
CyberPhysical Systems and Robotics	3D printing	Safety	Drones Internet of Things, Wireless sensor networks		Neurosciences, Robotics, Human-robot interaction
E-Education	Augmented reality			Big Data, Deep learning, Machine learning	Recommender systems
Artificial Intelligence	Augmented reality, Computer graphics, Computer vision		Optimization	Speech recognition, Big Data, Deep learning, Machine learning, Linguistics	Neurosciences, Recommender systems



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