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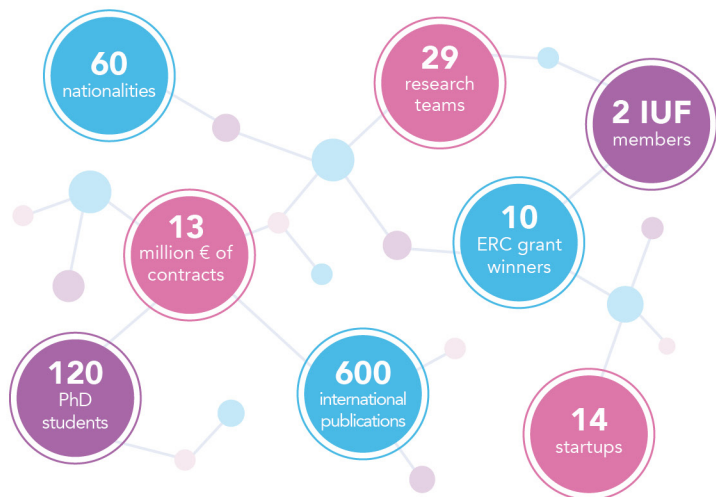
Loria

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, 20 millions  
Malware, forensics platform,  
cyber-range.

### Creativ'Lab

The Creativ'Lab CPS Robotics (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 Interfaces and robotics for autonomy with the Smart Room.

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

### High performance computing

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.

### Artificial Intelligence Health

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.

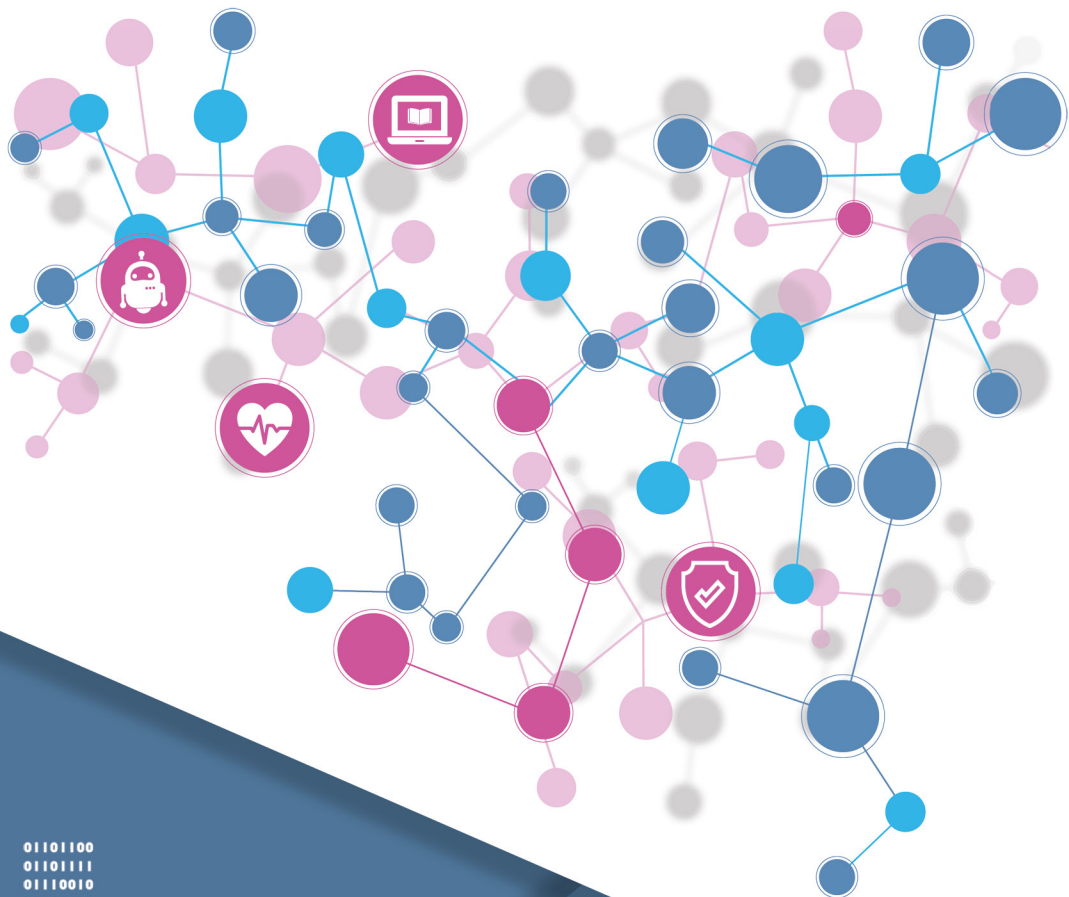
### ROBOTEX

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



# TRANSVERSAL AXES & 5 SCIENTIFIC DEPARTMENTS

Departments / Transversal Axes	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
<b>Cyber Bio Health</b>		Safety		Big data, Deep learning, Machine learning	Structural bioinformatics, Neurosciences
<b>Computer Security</b>		Malware, Automated deduction, Protocol verification, Quantum computation, Safety, Cryptography	Internet of Things, Service management	Big data, Deep learning, Machine learning	
<b>Cyber-Physical Systems and Robotics</b>	3D printing	Safety	Drones Internet of Things, Wireless sensor networks		Neurosciences, Robotics, Human-robot interaction
<b>E-Education</b>	Augmented reality			Big Data, Deep learning, Machine learning	Recommender systems
<b>Artificial Intelligence</b>	Augmented reality, Computer graphics, Computer vision		Optimization	Speech recognition, Big Data, Deep learning, Machine learning, Linguistics	Neurosciences, Recommender systems



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# Loria

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🖱 [www.loria.fr](http://www.loria.fr)

🐦 @labo\_Loria



*Inria*



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