

#ComputerScience
#DataScience
#ArtificialIntelligence

LITIS

« Laboratoire d'Informatique,
du Traitement de l'Information
et des Systèmes »

www.litislabor.fr

RESEARCH
laboratory



Staff over
160

Founded in
2006

More than
13m€
contractual
activities
in 2011-2015

The LITIS is a laboratory (EA 4108) University of Rouen Normandy, University of Havre Normandy and INSA Rouen Normandy. It is a member of the doctoral school MIIS and of the normand network «Digital Normandy». LITIS is a partner of the Normastic CNRS Research Federation.

Research fields

- ✓ Information access
- ✓ Bio-medical information processing
- ✓ Ambient intelligence

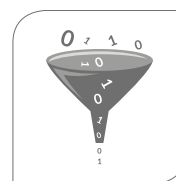
Application areas



Health



Automotive,
smart territories



Access to
information
in all sectors

Know-how and expertise

✓ Machine learning

LITIS is expert in the fields of machine learning and pattern recognition. These skills are essentially theoretical and algorithmic and relate to kernel machines, Markovian models, graph-based classification and model selection.

✓ Information technology, health

Research is carried out in medical imaging for prediction and therapeutic monitoring, as well as in bioinformatics to extract relevant information from biological data.

✓ Multi-agent systems

This research focuses on decision making and interaction mechanisms between software and human agents for the development of socio-technical systems. The models proposed for automated decision-making processes are based on reasoning models coming from artificial intelligence and from semantic web.

✓ Intelligent vehicle

Acquisition, processing and management of big data for intelligent transport.

✓ Combinatorics and algorithms

Combinatorial and algorithmic studies of models of an algebraic nature used for the processing of information [words, free monoids, automaton, generative series, polynomial systems].

🔗 A wide range of collaborations

LITIS collaborates with international groups [Airbus Defense and Space, Bio Mérieux, ITESOFT, Orange Labs, Siemens, Valeo] as well as small companies. It has close relations with Argentina, Brazil, Canada, China, South Korea, Spain, the United States, Italy, Morocco, Romania...

Facilities

Active production of demonstrators and software

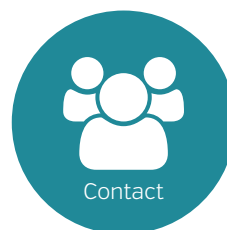
Research carried out at LITIS leads to the regular production of software or demonstrators promoting the dissemination and technological transfer of its scientific results: dematerialization and access to digital documents in PlaIR, PIVAJ or DocExplore

platforms; the manipulation of dynamic graphs by the GraphStream library; indexing and retrieval of medical information for the CISMeF portal and the EVA platform.

Keep in mind

INSA Rouen Normandie is the first public engineering technical university of Normandy. The 10 different engineer education tracks, the 7 masters in research and the 2 masters in applied sciences are deeply connected to its 8 research laboratories.

INSA Rouen Normandie provides four education tracks directly connected to the LITIS lab: engineer in information systems architecture, engineer in mathematics, Specialized Master® in data science, research master in science and data engineering.



Contact

Laboratoire LITIS

Université de Rouen Normandie
UFR Sciences et Techniques

avenue de l'université

76800 Saint-Étienne-du-Rouvray - FRANCE

tél. : +33 (0)2 32 95 50 11 - secretariat@litislab.fr