Laboratoire Informatique, Image et Interaction (L3i)

**L3i is the computer science research laboratory of La Rochelle Université.
It brings together researchers in computer science of the whole institution including those from the Institute of Technology.**

Focusing on the issue of interactive and intelligent management of digital content, the work of its members focuses on the national and European socio-economic issues related to this very promising field of research.

Director — **Yacine Ghamri-Doudane**

Permanent research staff — **32**

Phd students — **28**

Permanent technical assistant staff — **7**

Staff on research project — **32**

— 3 teams
▸ Dynamics of Systems and Adaptivity
▸ Images and Content
▸ Models and Knowledge

**Disciplines—Computer Science
Computer engineering . Automation . Signal processing**

Societal challenges

Digital humanities

Research on digitization and valorization of digital contents.

Digital trust

The study of the control and the exploitability of digital content are essential levers of competitiveness for the French government, national research and companies.

Interdisciplinarity

Integration of legal, managerial, economic and usage issues into its research, carrying out interdisciplinary work with CEJLR (Law), CEREGE (Management, Marketing), and CRHIA (International History and Atlantic) in order to understand the use of digital content according to a systemic vision, and to address current social issues: digital economy, change management, digital trust.

Substainable developement through ICT

Specialist and key player in the digital revolution in the face of the explosion of information, Big Data aims to offer an alternative to traditional database and analysis solutions.

Coastal and environmental monitoring

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Research Network

The L3i is integrated into CNRS research federations (MIRES, IRSTV), national research groups (GDR I3, GDR ISIS, GDR MAGIS, GDR ASR), as well as regional research networks (R3BD, R3MOB, NUMED, R3IA, R4) and international networks (including the International Association for Pattern Recognition-IAPR and IEEE). These collaborations revolve around strategic themes related to intelligent and interactive management of digital content.
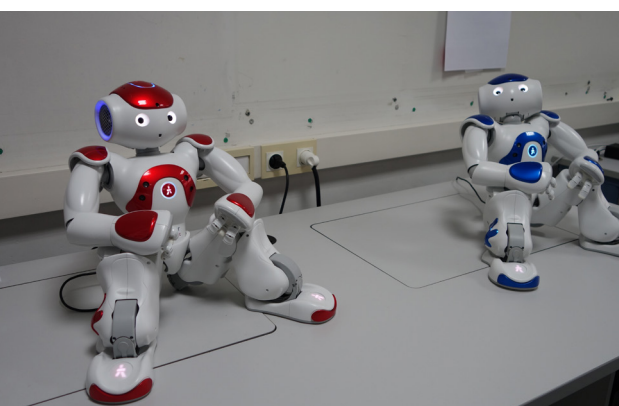
The L3i is also the initiator of the international consortium Valconum, dedicated to the valorization of research in the digital domain. This consortium brings together laboratories, businesses, and local authorities..

Expertise Achievements

L3i has contributed to the development of tools geared towards today's strategic socio-economic challenges of counting and protecting fragile marine areas, the "Mobile Connect and me" service and the FairGuest tool for tourism professionals.

Today, in addition to regular participation in ANR-supported research projects, L3i is involved in international and European projects, such as the H2020 NEWSEYES and EMBEDDIA projects (development of tools offering improved access to historical newspapers), the Horizon Europe BuildON projects (development of tools improving intelligent buildings and energy performance) and OPEVA (optimizing the eco-driving experience in connected and autonomous electric vehicles). It is also involved in several research projects supported by the France Relance plan.

Masters adossés au laboratoire

MASTER INFORMATIQUE

▶ **parcours Architecte logiciel**
▶ **parcours Données**

Partnerships Collaborations

The Laboratory benefits from the active support of local authorities (including the General Council of Charente-Maritime, the Community of Agglomeration of La Rochelle and the Nouvelle-Aquitaine Region). Its work is conducted in partnership with a dozen national research centers (including the National Institute for Research in Computer Science, or the Center for Biological Studies of Chizé) and French public institutions (including the National Institute of Studies demographic).

The L3i also has privileged links with numerous research centers around the world (including the Computer Vision Center of the Autonomous University of Barcelona).

It is also involved in around twenty industrial partnerships throughout France (Docapost, Itesoft, Proxem).

CONTACT
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La Rochelle Université