A multidisciplinary research ...
Research team (EA 3083) accredited by the French Ministry of Higher Education and Research

Research Domain:
Business intelligence and decision

Home universities:
• Lyon 1 (Sciences - Health)
• Lyon 2 (Humanities - Social Sciences)

Member of the Institut des Sciences de l’Homme

Research at ERIC aims at extracting value from huge, complex databases, especially in the fields of humanities and social sciences.

ERIC’s fields of expertise include issues related to modeling and managing complex data warehouses, mining heterogeneous, massive and little-structured data, and decision-support processes.
Two research teams

The DIS team’s research mainly focuses on complex data (texts, social networks, Web data...) warehousing and on-line analysis processing (OLAP) in various domains. The team aims at designing new warehouse models that are user-centric, efficient and secure.

For this sake, we rest on methods from the fields of databases, data mining, information retrieval and service technologies at all levels of the warehousing process: data integration (ETL), multidimensional modeling and OLAP.

The main topics we address are text data warehouses, social OLAP and personalization.

Moreover, to devise solutions to big data storage and analysis issues, the team investigates business intelligence in the cloud (cloud analytics), including NoSQL databases and on-demand OLAP.

Decision-support Information System (DIS)

Team manager: Fadila BENTAYEB
The **DMD** team’s objective is to design new systems, models and algorithms for complex data mining and decision support. Complex data are heterogeneous, diversely structured, voluminous, imprecise and dynamic.

To manipulate such data, the team rests on approaches from the fields of statistics and artificial intelligence: information retrieval, machine learning, multicriteria aggregation, reasoning in uncertainty, etc.

We aim to output both theoretical results and practical applications.

For instance, let us cite ranking comparisons, medical image reconstruction, sentiment analysis and social media mining.
A proven expertise

Consulting

Industrial valorization, Technological transfer

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National and international collaborations

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Grenoble - LIG
Rennes - IRISA
Clermont-Ferrand - LIMOS, IRSTEA
Toulouse - IRIT, IMT
Montpellier - LIRMM
University of Quebec
University of Aalborg
University of Oklahoma
National University in Economy of Kharkov
University of Tunis
University of Hassan 1er Settat
University of Montevideo
University of Fianarantsoa
NICTA Sydney
ERIC Lab

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