LIRIS

DRIM Team
Distribution and Multimedia Information Retrieval

CNRS

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Members

- 3 Professors
- 6 Associate Professors
- 1 Researcher (CR CNRS)
- 13 PhD students

Keywords

- Document annotation and semantic indexing; personalized information retrieval; interface, service and multimedia content adaptation; pervasive and mobile systems; distributed information systems and data grids; data confidentiality and access control.

Scientific skills

- Service oriented architectures and middleware; application protocols; document semantic modelling; multimedia database modelling; information system modelling; information retrieval techniques; documentary standards; data security

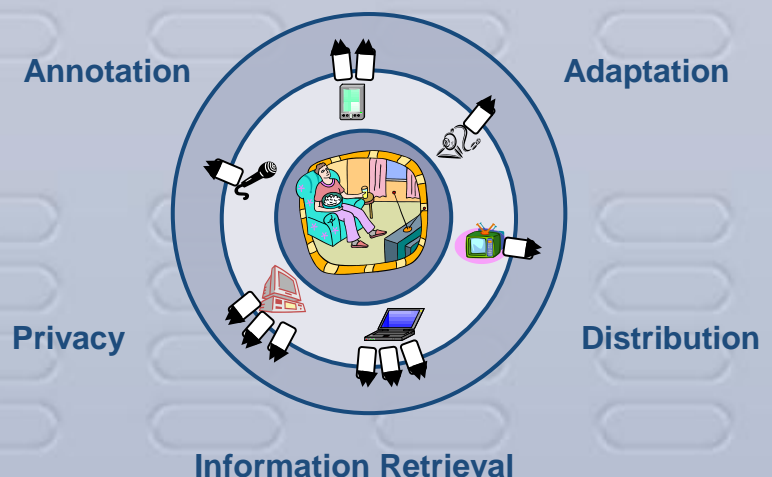## Defended PhD Thesis

- 5 per year in average

Publications

- 40 international publications per year, included 6 international journals

The DRIM team's main research directions fall into the following areas: (i) semantic indexing of multimedia data and documents; (ii) context modelling; and, (iii) design and development of protocols and tools for service discovery, access, data exchange, security and privacy. Applications targeted include information retrieval systems, mobile systems, datagrids, pervasive systems and social networks.

Expertise

- Semantic and collaborative multimedia document annotation assistants
- Personalized and multilingual information retrieval systems
- Distributed data management middleware: design and implementation
- Mobile IS, distributed monitoring and data spaces
- Context-aware applications
- Multimedia and multi-structured query processing
- Data security and privacy protocols in distributed environments

Semantic indexing

Annotation

Adaptation

Privacy

Distribution

Information Retrieval

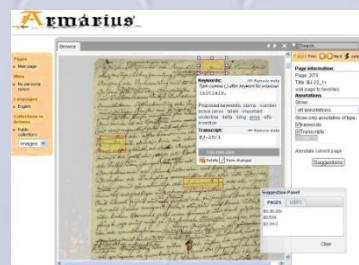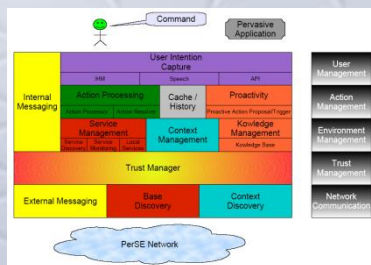**INSA LYON** **Lyon 1** **UNIVERSITÉ LUMIÈRE LYON 2** UNIVERSITÉ DE LYON **CENTRALE LYON**

General objectives

- Main domains
  - Health: personalized and shared medical record, home care, healthcare networks, collaborative diagnosis …
  - Cultural Heritage: museums, ancient manuscripts, digital libraries, archaeological documents …
- Other applications
  - Economic intelligence, technical documentation
  - Environment (sensor networks, pollution, environmental risk management ; tourism and transport)

Achievements, outstanding facts

- European project ALIAS (Alpine Space Program) : Alpine hospitals networking and telemedicine services
- Spin off company (Continew); domain: critical technical data management and securization platform
- DRIM ranked 1st (performance criterion : average precision) at the international challenge CLEF 2009
- Regional Heritage Prize 2007
- Creation of the French-German Doctoral College in Multimedia, Distributed and Pervasive Systems with Passau University
- Invitation of top level foreign researchers (3 visiting researchers per year on average)
- Distribution of free software: Porphyry, Armarius
- Editor in chief of ISI and Document Numérique journals ; editor of special issues in international journals
- Organization of IEEE ICPS'2006, CORIA'2006, JFO'2008 in Lyon and of several workshops

Positioning

- **International context**
  - ALIAS Project (Alpine Space Program)
  - Towntology Project (COST Action C21)
  - Open Scholarly Communities on the Web Project (COST Action A32)
  - International Multimedia Metadata Community
  - IST-ASIA-France ONCO-MEDIA Project
  - FSP Ethiopia « ICT for Development » Project (leadership)
  - French-German Doctoral College Multimedia, Distributed and Pervasive Systems (co-leadership)
  - Bilateral projects (Governmental supports) : Austria, Germany, Algeria, Tunisia
- **National context**
  - GdR CNRS i3 (co-responsibility of theme 6 « Digital Document ») and GDR CNRS ASR
  - Association Française en Recherche d'Information et Applications (vice-presidency)
  - ANR (National Research Agency) Projects: IPRI, AOC, OPTIMACS, APMD, SemWeb, GGM, Medigrid
- **Regional context**
  - Software Development Regional economic Cluster (member of AC)
  - Web Intelligence and SIMED (medical informatics) Projects of the regional research cluster ISLE ("Informatique, Signal, Logiciel Embarqué")
  - Digital Corpora Project of the regional research cluster "Culture, Patrimoine et Création"
  - Networked hospitals Project and ASPIC project of the regional research cluster GOSPI (Gestion et Organisation des Systèmes de Production et de l'Innovation)

Industrial partnerships

- SNCF, CAF, ALCATEL-LUCENT, SUN Microsystems, Centre Léon Bérard, Hospices Civils de Lyon

International relationships

- Austria, Ethiopia, Germany, Italy, Japan, Lebanon, Romania, Spain, Syria, Tunisia, USA