

# Web Intelligence

Cluster 2 : Informatique, Signal, Logiciel Embarqué

Rhône-Alpes <sup>Région</sup>

H A D A S  
HETEROGENEOUS AUTONOMOUS DISTRIBUTED DATA SERVICES



<http://hadas.imag.fr>

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## Heterogeneous Autonomous Distributed Data Services

HADAS



### Group Research Themes:

#### 1- Accessing data in large-scale systems:

*Adaptive query processing and new approaches for efficient query evaluation*

- Machine-learning-based adaptive query optimization
- Combine data and network management in dynamic ad-hoc networks
- Pattern mining on multicore processors
- Data mining on the chips

#### 2 - Composing data services in a dynamic way:

*Data and Query management using services*

- Merging data and control flows for describing service coordination
- Dealing with autonomic services and systems
- Providing reliability to services composition
- Service-based query processing
- Event flow management

#### 3 - Reasoning on data semantics:

*Algorithmics for scalable data querying through heterogeneous and distributed ontologies*

- P2P Data Management Systems
- Context data management for applications in evolving environment
- Representing data and resources quality and security as constraints

### Contribution to the WI Project:

- Related projects (ANR):
  - WebContent (<http://www.webcontent.fr>)
  - OPTIMACS (<http://optimacs.imag.fr>)
  - CONTINUUM (<http://conitnuum.unice.fr>)
- Tutorial on “Semantic Web” Marie-Christine ROUSSET at the Web Intelligence Summer School 2008, Autrans (38)
- Related thesis: H. TAN (2005-2009), S. TANDABANY (2004-2009), R. TOURNAIRE (granted, 2007-2010)
- Collaborative action on “Automatic discovery of mappings between ontologies in P2P context”. Presentations in nov. 2008 and nov. 2009
- Publications:
  - A. Portilla, T. Hanh, J.-A. Espinosa-Oviedo, Experiences in building reliable mobile services based applications. (ICDE'08)
  - A. Portilla T. Hanh, J.-A. Espinosa-Oviedo C. Collet G. Vagar-Solar, Construire des applications fiables à base de services mobiles. (Ubimob'08)
  - Rémi Tournaire, Jean-Marc Petit, Marie-Christine Rousset, Alexandre Termier, Découverte de mappings probabilistes entre taxonomies. (BDA'09)
  - Rémi Tournaire, Jean-Marc Petit, Marie-Christine Rousset, Alexandre Termier, Discovery of probabilistics mappings between taxonomies. (ESWC'10, submitted)