



Programme détaillé

Jeudi 16 octobre

09:00 - 10:00 **Keynote par Luc De Raedt**, chair *Marie-Christine Rousset*

"Declarative Modeling for Machine Learning and Data Mining". Today, it remains a challenge to develop applications and software that incorporates data mining. One reason is that the field has focussed on developing high-performance algorithms for solving particular tasks rather than on developing general principles and techniques.

I propose to alleviate these problems by applying the constraint programming methodology to machine learning and data mining and to specify data mining tasks as constraint satisfaction and optimization problems. What is essential is that the user be provided with a way to declaratively specify what the data mining problem is rather than having to outline how that solution needs to be computed. This corresponds to a model + solver- based approach to data mining, in which the user specifies the problem in a high level modeling language and the system automatically transforms such models into a format that can be used by a solver to efficiently generate a solution. This should be much easier for the user than having to implement or adapt an algorithm that computes a particular solution to a specific problem.

I shall illustrate this perspective by presenting our work on developing models as well as modeling languages for several data mining tasks. I shall include our recent results on the MiningZinc language and system, an extension of the MiniZinc framework for constraint programming.

salle de conférence

10:00 - 10:30 Pause / Démonos

grand salon / salle Molière

10:30 - 12:30 **Session 3 "Schémas et RDF"**, chair *Sofian Maabout*

Damian Bursztyn, François Goasdoué, Ioana Manolescu, Alexandra Roatis

Optimizing Reformulation-based Query Answering in RDF.

Mustafa Al-Bakri, Manuel Atencia, Marie-Christine Rousset

Import-by-Query : une approche itérative à base de règles Datalog pour inférer des liens "same-as" à l'aide du Web des données.

Danai Symeonidou, Vincent Armant, Nathalie Pernelle, Fatiha Saïs

SAKey: Scalable Almost Key discovery in RDF data.

Quoc Viet Hung Nguyen, Thanh Tam Nguyen, Zoltan Miklos, Karl Aberer, Avigdor Gal, Matthias Weidlich

Pay-as-you-go Reconciliation in Schema Matching Networks.

salle de conférence

12:30 - 14:00 Déjeuner, menu du Dauphiné

14:00 - 15:30 **Session 4 "Cubes de Données et Agrégation "**, chair *Karine Zeitouni*

Frédéric Dumonceaux, Guillaume Raschia, Marc Gelgon

Materializing Data Cubes as Partitions of Sets of Tuples.

Sofian Maabout, Nicolas Hanusse, Patrick Kamnang Wanko, Carlos Ordonez

Les Dépendances Fonctionnelles pour l'Optimisation des Requêtes Skyline Multi-dimensionnelle.

Reza Akbarinia, Florent Maseglia

Compression de flux de données probabilistes attentive à l'agrégation.

salle de conférence

15:30 - 16:00 Pause / Démonos

grand salon / salle Molière

16:00 - 20:00 Activités en extérieur

Initiation au Biathlon (course + tir) aux abords de l'Escandille

Course d'orientation autour d'Autrans

Brasserie du Vercors (visite, dégustation, jeux de société), Autrans

Fromagerie du Vercors (visite, dégustation), Autrans

20:00 - ... Soirée de Gala