9:00 - 10:00 **Keynote par Luc De Raedt**, chair Marie-Christine Rouset
"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 focused 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 optimisation 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 also include our recent results on the MiniZinc language and system, an extension of the MiniZinc framework for constraint programming.

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10:00 - 10:30 Pause / Démos

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.
- Danai Symanoudou, Vincent Armant, Nathalie Pernelle, Fatih Saiş: SAKey: Scalable Almost Key discovery in RDF data.

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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.
- Reza Akbarinia, Florent Masseglia: Compression de flux de données probabilistes attentive à l’agrégation.

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15:30 - 16:00 Pause / Démos

16:00 - 20:00 Activités en extérieur
- Initiation au Biathlon (course + tir) aux abords de l'Escandille
- Course d'orientation autour d'Autorans
- Brasserie du Vercors (visite, dégustation, jeux de société), Autorans
- Fromagerie du Vercors (visite, dégustation), Autorans

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20:00 - ... Soirée de Gala