Monday

9.00 - 10.30  
Introduction to the seminar

Introduction to the participants (2 min each)

10.30 - 11.00 Coffee

11.00 - 11.30  
*Reserve Slot*

11.30 - 12.00  
*Toby Walsh*: Correlation Constraints and their application to Security Games and Rank Aggregation (has to be on Monday)

Lunch

13.45 - 18.00 *Frameworks/languages* (Coordinated by Luc De Raedt)

*Benjamin Negrevergne/Tias Guns/Siegfried Nijssen*: Relational CP

*Marc Denecker*: Constraint solving with extensions of classical logic

*Francesca Rossi*: probabilistic CP_nets

*Vijay A. Saraswat*: Timed, Probabilistic (concurrent) constraint programming

*Randy Goebel*: Classes of constraints within a high level model of constraint optimization.

Tuesday

9.00 - 12.00 *Algorithm Configuration* (Coordinated by Barry O’Sullivan)

*Holger Hoos*: Analysing and Automatically Optimising the Empirical Scaling of Algorithm Performance


*Frank Hutter*: Modelling and Optimization of Empirical Algorithm Performance

*Alan Frisch*: further discussion on this

Lunch

13.45 - 18.00 *Constraints in pattern mining* (Coordinated by Siegfried)

*Tias Guns*: MiningZinc; can also be seen as a framework.

*Jean-Francois Boulicaut*: Constraint-based mining and expert
models: preliminary ideas

**Bruno Cremilleux:** On Preference-based (soft) pattern sets

**Lakhdar Sais:** Building bridges between data mining and constraint programming

**Thi-Bich-Hanh Dao, Christel Vrain:** Distance-Based Constrained clustering by Constraint programming

**Luc De Raedt**, Constraint-based queries for Bayesian networks

**Wednesday**

9.00 - 9.30  **Application**

**Yuzuru Tanaka:** Exploratory Visual Analytics of Big Data from Complex Sysytem of Systems such as Personalized Medicine and Urban-Scale Winter Road Management

9.30-12.00  **Learning Constraints** (Coordinated by Michele)

**Michele Sebag.** Estimating the value of (sets of) constraints

**Andrea Passerini.** Structured learning modulo theories

**Arno Siebes:** Constraints to Specify Data

Lunch

**Afternoon : excursion**

**Thursday**

9.00 -9.30  **Application**

**Ken Brown:** Learning and optimising in home energy management

9.30-12.00  **Machine learning** (Coordinated by Barry)

**James Cussens:** demo for BN learning software GOBNILP

**Kristian Kersting:** Relational Linear Programming

**Ian Davidson:** New and emerging uses of constraints in transfer and active learning.

**Hendrik Blockeel** : Declarative modeling

Lunch

13.45 - 15.30
Big Data (Barry)

Human in the Loop / Learning and optimisation (Michele)

16.00 - 17.45

Modelling languages (Ian and Luc)

Meta-algorithmic Issues (Holger)

19.00 - 20.00 Killer Apps and Challenges (Barry)

Friday

9.00 - 12.00

Demo’s

Summary Session